

LIFE



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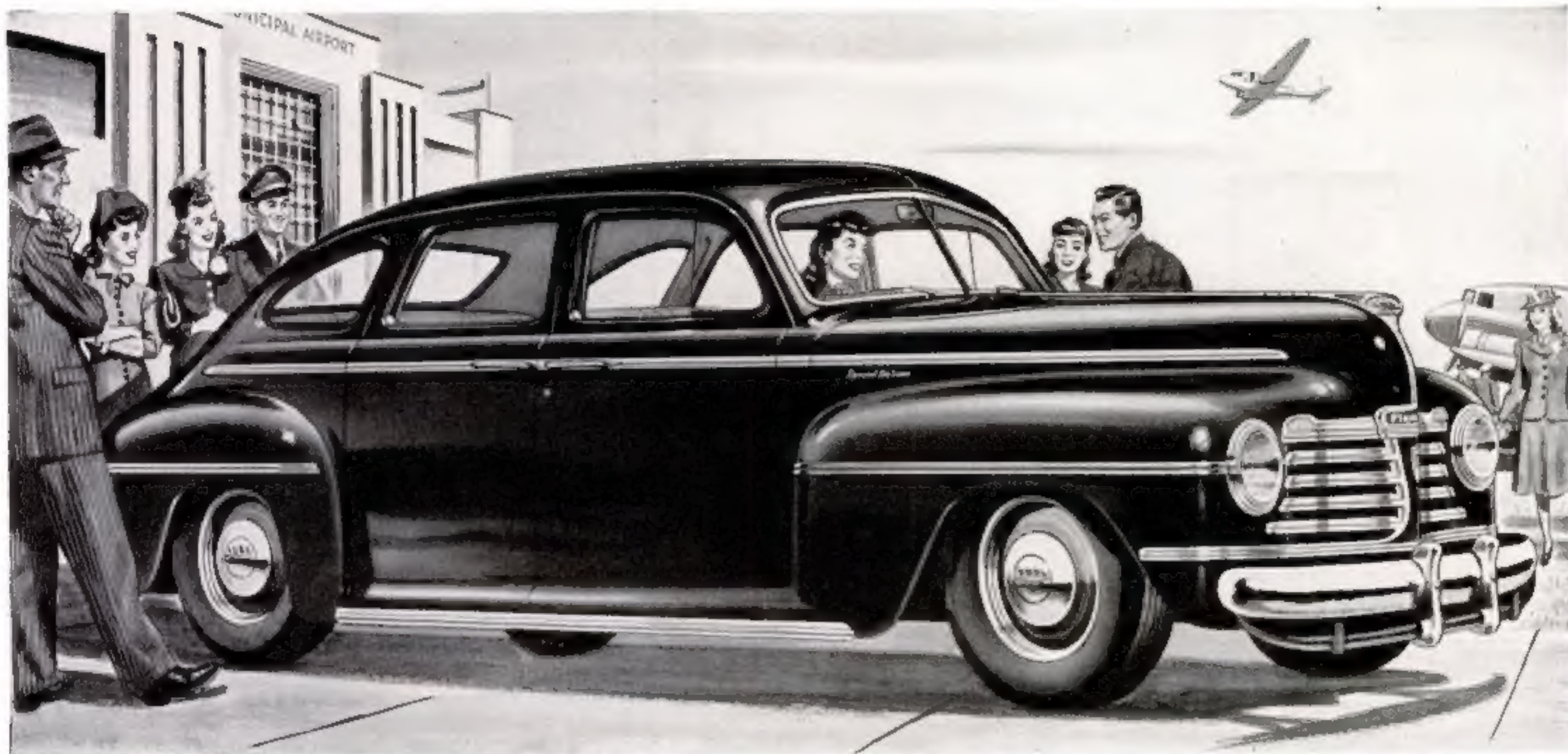
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HERE'S NEW ECONOMY FOR YOU NOW AND FOR YEARS TO COME!

Plymouth's Finest gives you 10% more Power—now 95 H. P. And you get a big "Thrift Bonus" in extra gas mileage and long engine life. The body is low-slung, long, wide and roomy. You get a wonderful new ride. Buy Wisely—Buy Quality—Buy the Car that Stands Up Best!



PLYMOUTH IS CHRYSLER CORPORATION'S NO. 1 CAR

HERE'S THE FINEST CAR investment low price can buy! A brilliant, new car—styled to stay beautiful and engineered to stay new—*Plymouth's Finest!*

Plymouth's Finest is long, wide and roomy. And the smart, low-to-the-road design that gives it its sleek, dashing appearance also contributes wonderful new smoothness and steadiness to Plymouth's ride!

Plymouth's Finest is so powerful that you use only a fraction of its power in all normal driving. The big 95-h.p. engine purrs along with fewer revolutions per mile—saving gas and adding to engine life. This is thrifty driving at its finest!

Plymouth is famous as the best-engineered low-priced car. Vital engine parts are Superfinished against wear as in a modern aircraft engine. You get an Oil Bath Air Cleaner, Oil Filter, Coil Springs, Hypoid Rear Axle, 4-Ring Pistons—many fine features that identify Plymouth as the low-priced car most like high-priced cars.

See this fine car at your Plymouth deal-

Buy Wisely— **BUY PLYMOUTH**

er's—drive it! It's your wise low-priced car buy! All prices and specifications are subject to change without notice. Plymouth Division of Chrysler Corporation.

TUNE IN MAJOR BOWEN'S HOUR, C. B. S., THURSDAYS

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Army Tanks • Anti-Aircraft Guns
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Industrial Engines • Diesel Engines
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and Air Conditioning.



MASSIVENESS and lowness distinguish the front end of Plymouth's Finest. The car is long, wide, roomy... with concealed running boards...new-styled interiors.

THE CAR THAT STANDS UP BEST!

This One



XYQO-N3S-F925

THE AMERICAN SHIRT FRONT: *Bridge Party*



Common Shirt Faults

1. The tight collar.

2. The messy collar.

3. The bunched midriff.

4. Arrow Shirts have an unbeatable combination of virtues: perfect styling, tailoring, and fit. See them at your Arrow Dealer's today. \$2, \$2.25, \$2.50, \$3.50, and \$5.

Arrow's Remedies

All Arrow Shirts are guaranteed to fit permanently. They're Sanforized-Shrunk, fabric shrinkage less than 1%!

Arrow has made collars since 1861 and no one makes them better. Try Arrow Hitt, Dart, or Dale—all have non-wilt collars.

Arrow Shirts have the exclusive "Mitoga" figure-fit: sloped shoulders, curved waist, tapered sleeves.

ARROW SHIRTS

Made by Cluett, Peabody & Co., Inc., Troy, New York

LETTERS TO THE EDITORS

First Aid

Sirs: Some time ago you printed a shot of Violinist Fritz Kreisler taken immediately after an automobile accident. As a footnote for your First Aid Essay (LIFE, Sept. 29), it is an excellent ex-



INJURED VIOLINIST KREISLER
ample of what not to do when administering first aid.

RALPH D. BRITTON

Loomis School
Windsor, Conn.

● Mr. Kreisler on April 26 was struck by a truck on a New York City street, sustaining a fractured skull and internal injuries. Picture shows violation of two cardinal first-aid rules. Mr. Kreisler was moved before diagnosis of his injuries; he is propped in a position calculated to aggravate his injuries and heighten attendant shock. —ED.

Sirs:

Your First Aid Essay is a public service that should do much to offset the horrible example set in movies, which are forever portraying the heartless and would-be-fatal mauling of the supposedly broken bodies of accident victims.

You've seen it: a terrific car crash—blood and moans—then in comes the hero to drag an unconscious victim out of the wreckage, crumpling her in his arms. Were a first-aid to supervise the sound track he would insist on recording the grating of fractured bones and the gurgling of gore from severed arteries.

DAVID R. BROWER

Berkeley, Calif.

Sirs:

I was quite surprised that you didn't mention another very important feature concerning the application of traction splints. It is: once you start the gentle pull on a fractured limb, it must not be relaxed until traction is secured and splint is finished.

In order to impress people with how much damage the sharp edges of a broken bone can do, it is often well for the instructor to obtain some bones from a butcher shop and let the class experiment by applying the jagged edges to various cuts of meat:

RUSSELL FRANK, R.N.

East Cleveland, Ohio

McGillcuddy's Killorglin

Sirs:

I demand a public apology in LIFE for your story on Puck Fair (LIFE, Sept. 29). That article is a grave slander and one of the most degrading insults that could be cast on any race of people, more especially the Irish race.

I was born in the town of Killorglin and can still see my name on the door in your picture of Puck Fair. I have never seen the people lying in the streets drunk. I have never seen the fighting.

(continued on p. 4)

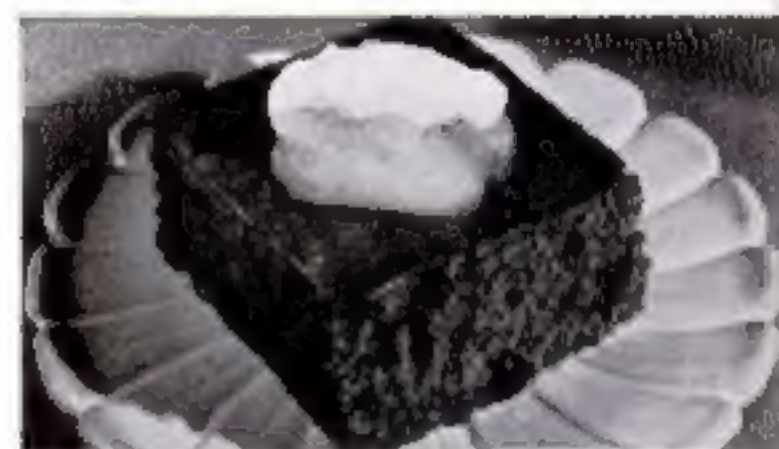
SO EASY TO GET

EXTRA IRON

IN THESE DELICIOUS FOODS



MOLASSES MILK SHAKE—Mix one or more tablespoons of Brer Rabbit Molasses with a glass of milk.



THE CHILDREN'S EYES SPARKLE when mother bakes fragrant, spicy gingerbread. And there's extra iron in every bite!

Brer Rabbit Molasses is one of the richest known food sources of available iron

Children love this "good-to-eat" way of getting extra iron. And mothers love its ease and economy.

Brer Rabbit Molasses is easy to buy . . . inexpensive. And scientific tests prove it is second only to beef liver as a rich food source of iron. None of Brer Rabbit's iron-richness is lost in cooking.

Brer Rabbit New Orleans Molasses comes in two flavors: Green Label, a dark, full-flavored molasses; Gold Label, a light, mild-flavored molasses.



FREE

Cook Book with over 100 ways to use molasses. Also pamphlet on children's iron needs.

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Please send me free copies of Brer Rabbit's "Modern Recipes for Modern Living" and "Something Every Mother Should Know."

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“Successful...a Man with a Future!” That's what Good-Looking Hair can say for you!



No other single thing gives a man's looks such a lift as well-kept, handsome hair. It confers an air of good grooming and pride that speaks volumes for the owner's self-respect and self-confidence.

With Vitalis and the “60-Second Workout” it's easy to keep your hair good-looking—to make it help your personal appearance—yes, and to be an invaluable business and social asset.



You speed your business success when you give your hair good-looks with the Vitalis “60-Second Workout.” For a good personal appearance acts like a strong letter of introduction. And handsome hair gives you a crisp, efficient air that makes other men think: “This man knows how to package himself for sale”!



Many a fellow's popularity and success dates from the day when he gave his appearance and personality a lift with well-groomed, handsome looking hair. So why not give yourself the benefits of Vitalis and the famous “60-Second Workout”? Get a bottle of Vitalis at your druggist's—give your appearance a lift—today!

Help keep your hair
A Business and Social Asset with
VITALIS
and the
“60-Second Workout”



50 Seconds to Rub—Just feel that refreshing stimulating “tingle” as circulation quickens—the flow of necessary oil is increased. And with the pure vegetable oils of Vitalis supplementing natural oils, your hair takes on a fresher, natural lustre.



10 Seconds to Comb—Your hair stays neatly in place—and there's no “patent-leather” look. And what's more, the Vitalis “60-Second Workout” routs embarrassing loose dandruff—helps prevent excessive falling hair—helps you *keep* your hair.

A Product of Bristol-Myers Company

VITALIS AND THE “60-SECOND WORKOUT” HELPS KEEP HAIR HEALTHY AND HANDSOME!



*Your dream was answered
when PEQUOT made
PERCALES*

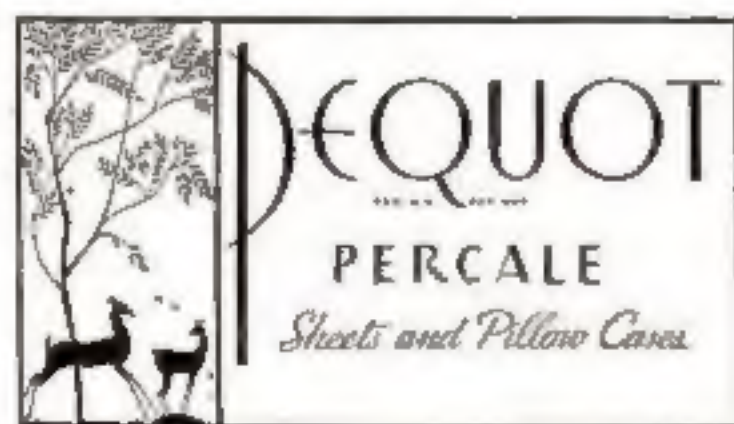
Even when you buy luxurious percale sheets you want *Pequot dependability*.

Now you can have it! Yes, Pequot now makes Percales! And what exquisite sheets they are. Light weight, satin-smooth. Sweet and cool to the touch—sheets that make your dreams of sleeping luxury come true.

Even your housewifely conscience can only praise these sheets. Note the Pequot firmness! The fine, close, conscientious weaving that endeared the name of Pequot to generations of value-seeking women.

So, when buying Percale Sheets, too, it's "Mind your P's and Q's—get Pequots."

PEQUOT MILLS, SALEM, MASSACHUSETTS



LETTERS TO THE EDITORS

(continued)

gambling, etc. which your magazine depicts of life at Puck Fair. The many people who have called my attention to this matter make me blush with shame. If a public apology is not in order in



KILLORGLIN'S MCGILLICUDDY

your magazine I shall take it up with the various clubs. You have insulted the whole Irish race.

PATRICK MCGILLICUDDY
Brighton, Mass.

● An honest Dublin photographer took *LIFE*'s pictures of the merry doings at Killorglin and reported the facts as he saw them.—ED.

Sirs:

"The Puck Fair . . . shows the kind of happy, ordinary ways of life for which the British Empire is now furiously fighting."

You should have heard the biting comments on your statement in New York's Chelsea District, where people know how to celebrate St. Patrick's Day. The belly laughs in the pubs along West 23rd Street—rightly or wrongly—were a vigorous denial of the above statement. The Irish people fought and bled for centuries to live their own "happy, ordinary ways of life"—most decidedly not those dictated by the rulers of the British Empire.

J. H. MEYER

New York, N. Y.

● Ireland today should look across to the coast of France.—ED.

Battle of Shiloh

Sirs:

In your recent review of *Reveille in Washington* (*LIFE*, Sept. 29) I would like to point out an important mistake that should not go unnoticed. In one paragraph it reads: "Apr. 14, 1862. The news of the bloody Federal defeat at Shiloh. . . ."

Anybody acquainted with history knows that Shiloh was not a Federal defeat, but rather a victory, although it was one of Grant's worst fights. The battle of Shiloh, or Pittsburg Landing, began on April 6, when Grant's tired army was resting (waiting for General Buell's command to join them). General Albert Sidney Johnston attacked with full fury and Grant was driven back, but in the moment of apparent victory Johnston was killed by a bursting cannon ball. Now General Beauregard, the hero of Bull Run, took command and decided that no more fighting was necessary that day. During the night, however, Buell's army re-inforced Grant and in the morning the combined forces swept onward to victory.

QUIZ KID HARVE FISCHMAN
(Aged 11)

Chicago, Ill.

● To contemporary Washington, as Author Margaret Leech accurately pictured it, Shiloh was a defeat. Only historical hindsight has reversed that judgment.—ED.

(continued on p. 6)

Quick as a Wink
...a better drink



with *Genuine*
SPARKLET
SYPHON and BULBS



**Makes freshly charged
club soda at home . . .
whenever you need it.**

A smart touch for any setting, Sparklet saves time, space and trouble—eliminates the nuisance of bottle deposits and bottle returns. Economical, convenient; Sparklet Syphons and Bulbs are sold by good dealers everywhere.

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FOR FINEST CLUB SODA

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Pictured here are the most recent books that were Club Selections and Book-Dividends. Members do not have to take the selection every month; they may buy as few as four a year. But whenever they do buy the Club's selections they receive one book-dividend FREE for every two selections they buy.

OVER 425,000 families — thus at the very least, over a million discriminating book-readers — now belong to the Book-of-the-Month Club. They do so, in order to keep themselves from missing the important new books they are really interested in. Time and again you buy the "book-of-the-month"—not knowing it has previously been chosen by our judges—merely because some discerning friend has said firmly: "There's a book you must not miss." How sensible to get these books from the Club, since you pay no more for the books you buy, and save enormously in other ways.

LIST OF SELECTIONS SHOWN ABOVE

BERLIN DIARY, William L. Shriver
THE KEYS OF THE KINGDOM, Dr. A. J. Cronin
OUT OF THE NIGHT, Jan Valtin
FOR WHOM THE BELL TOLLS, Ernest Hemingway
BLOOD, SWEAT AND TEARS, Winston Churchill
M. PULHAM, ESQUIRE, John P. Marquand
DARKNESS AT NOON, Arthur Koestler
JUNIOR MISS, Sally Benson
KABLOONA, Gontran de Poncins
PPHRA AND THE SLAVE GIRL, Willa Cather
MY NAME IS ARAM, William Saroyan
EMBEZZLED HEAVEN, Franz Werfel
NEW ENGLAND: INDIAN SUMMER, Van Wyck Brooks
THE AMERICAN PRESIDENCY, Harold J. Laski
MRS. MINIVER, Jan Struther

You are not obliged, as a subscriber of the Club, to take the book-of-the-month our judges choose. Nor are you obliged to buy one book every month. You receive a carefully written report about the book-of-the-month chosen by our four judges, in advance of its publication. If it is a book you really want, you let it come to you. If not, you merely sign and

mail a slip, saying, "Don't want it."

Scores of other careful recommendations are made to help you choose among all new books with discrimination. If you want to buy one of these, you merely ask for it.

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LETTERS TO THE EDITORS

(continued)

Quiz Kid

Sirs:

Your article on Gerard Darrow (LIFE, Sept. 29) made me do some thinking. In the first place, if I had a boy who came in and said, "Dad, I love ornithology and paleontology; may I give you a dissertation on the evolution of a duck," I think I would look up with alarm and put him to bed...

If this fad of raising brain-busting kids spreads throughout the land we can look forward to a future America of juvenile super-brains pooling their intelligence, and then, who knows—possibly the father will become the mother. I'm not for it.

So to the plain, healthy, normal American boy, I say—don't worry, you'll come out all right.

L. J. CALENDER

San Francisco, Calif.

Sirs:

In LIFE, Sept. 29, Gerard Darrow is quoted as follows: "Anybody who would kill a pheasant ought to be killed."

As the originator of the idea of paid shooting in the U. S. I wish to call Master Gerard's attention to the fact that 50 years ago there were no ring-necked pheasants in the U. S. and that they were first imported from China for the purpose of shooting for sport.

There are now many game farms throughout the U. S. devoted to the primary purpose of raising ring-necked pheasants for release for shooting purposes. Some birds are inevitably driven from these farms by shooting onto unposted land, where they multiply and provide enjoyment for the general public. Nature lovers like Gerard enjoy seeing this bird in the wild only because game breeders have reared them for shooting.

C. BEVERLY DAVISON

Millbrook, N. Y.

Sirs:

In LIFE, Sept. 29, you say in the same breath, "Gerard takes toy Donald Duck to bed with him" and "Gerard doesn't like toys." I am sure there is some mistake.

PETER HOPE

P. S. I am 12 years old.
New York, N. Y.

● Donald Duck is not a toy but a playmate.—ED.

Hirsutage

Sirs:

In your Speaking of Pictures (LIFE, Sept. 29), you had some fine photos of enlisted men growing mustaches.

When the 151st Regiment, 38th Division left for Louisiana in August many men of this organization let not only



PRIVATE BLACKMUN'S BEARD

their mustaches but their beards grow. Here is a photo of Private William Blackmun, 151st Infantry Band (see cut).

PVT. HAROLD HATTEN

Camp Shelby, Miss.

(continued on p. 8)



The "newspaper swoop"—puts you first in line, but may put an end to your stockings! You run less risk of "pop" runs, though, with exquisitely sheer Cannon Hosiery!

That's because every pair is inspected by an air-pressure machine for tiny flaws that might cause "mystery" runs. Cannon rejects all but the perfect hose. They're full-fashioned, flawless, triple-inspected!

Cannon Hosiery

P. S. Now available! Cannon fine hosiery in the Cellophane Handy-Pack at popular prices. Made by the makers of Cannon Towels and Sheets.

CANNON

Its rare goodness depends on an

ORCHID



Only pure undiluted vanilla—from jungle-grown vanilla orchids—gives the delicious aromatic flavor your foods deserve. Always ask for the one and only

D. PRICE'S
DELICIOUS FLAVORING
EXTRACTS
VANILLA, LEMON, ALMOND-
RED AND GREEN FOOD COLORS



IT PAYS TO BUY THE LEADER AND GET THE LEADING BUY



CHEVROLET AIDS NATIONAL DEFENSE



Your own eyes and your own tests will tell you that this newest Chevrolet brings you more quality, more beauty, more comfort, more performance with economy than you have ever before obtained at low prices. . . . And, of course, under today's conditions, Chevrolet gas, oil and upkeep economy is both a personal advantage and a national asset.

CHEVROLET MOTOR DIVISION, General Motors Sales Corporation, DETROIT, MICHIGAN

DESIGNED TO LEAD IN STYLING

Chevrolet alone of all low-priced cars has new "Leader Line" Styling, swank new "Fender Wings" and Body by Fisher with No Draft Ventilation.

DESIGNED TO LEAD IN PERFORMANCE

Chevrolet alone combines a powerful, thoroughly proved Valve-in-Head "Victory" Engine, Safe-T-Special Hydraulic Brakes, Unitized Knee-Action Ride, and Extra-Easy Vacuum-Power Shift at no extra cost.

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Chevrolet is the most economical of all the largest-selling low-priced cars from the all-round standpoint of gas, oil and upkeep.

THE FINEST CHEVROLET OF ALL TIME



HOW AND HOW NOT TO TAME HAIR

No matter how wild and unruly your hair may be, DON'T douse it . . . because dousing with water or anything else makes it look slicked down . . . unnatural. Instead, comb in a few drops of 'Vaseline' Hair Tonic for good-looking, natural-looking hair.



DON'T JUST TAME YOUR HAIR
...FIGHT DRY SCALP, TOO

POSSIBLY you have Dry Scalp right now. It often goes undetected until it causes itchiness . . . showers of loose dandruff on your shoulders . . . abnormal loss of hair. There is real and effective help in a bottle of 'Vaseline' Hair Tonic . . . a quick and simple way to check Dry Scalp . . . to keep the hair neat and good-looking all day long. Just try these two easy steps:

(1) **EVERY MORNING**, shake a few drops of 'Vaseline' Hair Tonic on your comb and run it through your hair.

(2) **EVERY WEEK** before shampooing, massage vigorously with plenty of 'Vaseline' Hair Tonic. The special properties of 'Vaseline' Hair Tonic make it ideal for fighting Dry Scalp. Start using 'Vaseline' Hair Tonic today, and see a real improvement in the looks of your hair.



'Vaseline' Hair Tonic is different, containing no drying ingredients.

By actually supplementing the natural scalp oils, 'Vaseline' Hair Tonic aids in keeping the scalp supple . . . the hair lustrous, well-groomed and natural-looking. Try it!

Vaseline HAIR TONIC

REG. U. S. PAT. OFF.

LETTERS TO THE EDITORS

(continued)

Rural Housewife

Sirs:

Your story on the housewife in the city was very interesting (LIFE, Sept. 22), but what about the housewife on the farm? It's a jolly life for the farmer's wife, and if you don't believe it have a look at the following, author unknown:

"The farmer's wife has no excuse for not being cultured and up-to-date. All she has to do is to cook the meals and wash the dishes and mop the floor and scrub the steps and wash the clothes and mend the linen and darn the socks and milk the cows and churn the butter and feed the chickens and bathe the children and can the fruit and cut the children's hair and set the dog on stumps and chase the cat out of the milk house and polish the silver and black the stove and straighten the shades and settle the children's scraps and shoo the hens off the porch and wipe up the mud father and the boys track in and bake the bread and make the cake and chase the pigs out of the garden and answer the telephone and sift the ants out of the sugar and air the feather beds and heat the water for father to wash his feet and watch out for bed bugs and get the men up in the morning and gather the eggs and set the hens and keep the neighbor's baby while she goes to town and get the children off to school and get rid of insurance agents and spray the fruit trees and gather the berries and trim the lamps and swat the flies and empty the ashes and slop the pigs and peel the peaches and rake the lawn and feed the pet lambs and string the beans and fill the lantern and sort the apples and find the men's collar buttons and carry in the wood and pick the goose and answer the door and tell the men what they did with the ax the last time they used it and write a letter to mother. Then in the afternoon she can go to the missionary meeting and work her head off for the heathen."

MARY ANN VENETUCCI

P.S. This was in our local farm news recently.
 Colorado Springs, Colo.

Hospitality

Sirs:

Our copy of LIFE, Sept. 20, in which you showed a prominent Georgia family entertaining a group of Army selectees with true Southern hospitality, arrived the day before we gave a party for 20 boys from the Alameda Air Base. Not to be outdone, I told the boys that we



PARTY FOR SAILORS

were going to take pictures and submit them to LIFE to show that we were trying to extend their boys some of our Western hospitality. Incidentally five of the 20 boys were from Georgia.

We gave ten of them a real Western barbecue. The other ten we took on a picnic the next day and later in the evening, after a scenic drive around the San Francisco Bay region, we had cake and coffee at one of the hostesses' homes.

Any money received for the pictures will be used to give them another party.

If the boys we entertained are an example of the U. S. Navy, certainly our country should be very proud of them. I don't know when we have ever met a finer or more polite group of young men.

EVELYN ZIMMERMAN
 Oakland, Calif.

Young Shah

Sirs:

The photograph of Iran's new Shah (LIFE, Sept. 29) reminded me of the years (1932-34) that I spent in school



TAKE YOUR POTTED PLANTS INSIDE NOW AND FEED THEM

PLANTABBS

Don't let an early frost nip them. Fulton's PLANTABBS will provide them with all the completely balanced food elements plus Vitamin B₁ and root producing hormones essential to their vigorous health abundant foliage and lovely blooms. PLANTABBS are a perfect food and tonic for everything that grows in the soil, indoors or out. Clean, odorless, convenient, safe. Will not burn. Each tablet a full meal which may be planted in soil, like seed, or dissolved in water to make a rich liquid fertilizer. For the finest plants and flowers use Plantabbs.



Fulton's PLANTABBS
 PLANT FOOD TABLETS PLUS VITAMIN B₁



SPECIAL OFFER!

Got a date? Social or business? In either case, it pays to look your best!

Give yourself a Pompeian Massage—and see how invigorated your face feels!

Do this right after shaving: Put on a hot towel to open the pores . . . then take a fingerful of Pompeian Milk Massage Cream . . . rub it in good. You actually see it work. It goes on the soiled skin clean-pink . . . it comes off dirt-grey, and now look at yourself! The blood is circulating in your face again . . . your skin glows with natural, outdoor color. You look like a new man!

Not every pink massage cream is the famous original. Get the genuine Pompeian Milk Massage Cream—used by well-groomed men for 30 years. Costs less than 2c a treatment. Get a jar today at your drug, department, or dime store, or send for special offer below

SPECIAL 6¢ OFFER

The Pompeian Co., Baltimore, Md.

Enclosed find 6c in stamps to cover postage and packing for generous jar of Pompeian Massage Cream, at least 4 treatments. L-10

Name _____
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YOU CAN WIN
\$1000

See if you can tell us, in 25 words, why you prefer STARDUST Slips.* Perhaps YOU will be the fortunate winner of \$1000 in Baby Bonds, or one of 45 other cash prizes!

GUARANTEED FOR 1 YEAR

You'll rave about the glorious wash resistant acetate rayon fabric, specially cut to hug your curves without sagging or creeping 3 lengths. Insist on genuine STARDUST... accept no imitations!

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INSURED

About \$139

Also Stardust Supreme at slightly higher price, at leading department stores

*HERE ARE THE SIMPLE RULES

Write your 25 word statement on the Stardust guarantee tag attached to each slip or a business card. Contest closes midnight December 31st. Letters become our property and decision of judges is final. Winners will be notified promptly. In case of ties, duplicate prizes awarded.

Industrial Undgt. Corp., P. O. Box 31, Sta. F, New York

LETTERS
TO THE EDITORS
(continued)

with him in Switzerland. About a hundred boys attended Le Rosey at that time, a school in a chateau half way between Lausanne and Geneva. Of those hundred, 60 were Americans, the remaining 40 were a heterogeneous group of Indian maharajas' sons, decadent Polish and Belgian nobility, German refugees, and Pahlavi and his little brother, Shahpur.

The first day of school Pahlavi arrogantly ordered his schoolmates to rise from the bench which encircled an old oak, he wished to sit down. But the Browns of Minnesota and the Griswolds of Pasadena were unimpressed, they told him to go to hell. This evidently worked like a charm. For a long time the only people who showed him the slightest respect were the headmaster's wife and the French-educated, white-haired Persian doctor, who had been sent along to look after the royal ragamuffins.

The crown prince could not have been more than 13 at that time, he insisted, however, on tearing around the Lake of Geneva in his cream-colored Hispano-Sulza, which he smashed more than once.

But Pahlavi did not take too long before proving that, in addition to being an excellent student and the school's ace soccer player, he was pretty much of a good guy. And Shahpur smiled at everybody with great white teeth and flashing black eyes. I have often wondered what has happened to him... and to Ernest, a refined young Vaudou who shined shoes at the Rosey, and made beds, and dedicated poetry to the little boys, he went off to Persia with Pahlavi in 1934 as his personal valet.

FREDERICK JACOB JR.
Cambridge, Mass.

Emancipated Fashion

Sirs

LIFE, usually so accurate, erred badly in its comment on French styles in the Sept. 22 issue.

You state that U. S. couturiers have just lately released styles similar to the Paris productions worn in the early part of July at Auteuil outside Paris; and that



MANIKINS AT AUTEUIL



MANIKINS AT BELMONT

the French manikins are wearing froon-frou around the neck and the long jacket produced two months later by American designers.

May I call your attention to the photograph herewith of New York creations taken on May 13 at Belmont Park, Long Island, sometime before your Paris picture was snapped.

DOROTHY ANDERSON
Executive Director
New York Dress Institute
New York N. Y.

Editorial correspondence should be addressed to:
THE EDITOR, LIFE
TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK CITY

BOY! OH BOY! What a Thrill I Had On Your Easy-To-Ride Schwinn-Built Lightweight!

says EDDIE CANTOR

"TIME TO SMILE"
Tune in on
EDDIE CANTOR
Every Wednesday Night
— 9:00 P. M. E. S. T.
NBC Red Network



The Cantor Family in front of their home. Left to right: Natalie, Ida (Mrs. Cantor), Edna, Janti, Margy, Eddie, and Marilyn, on their Schwinn-Built bikes.

"It was not so long ago that I had my first ride on one of your easy-to-ride Schwinn-Built lightweights—and boy, oh boy, what a thrill I had. I understand now why you can afford to offer a Lifetime Guarantee. Every member of my family owns one of your Superior lightweight Tourist models. Cycling is certainly great sport and one of the best means I know about of keeping in tiptop physical condition. It's a form of exercise certain to remove surplus weight. Besides, it makes people realize they have two perfectly good legs, which should be used if they intend to keep in condition."

EDDIE CANTOR

Irrepressible Eddie, who has thrilled millions, found a new thrill himself when he stepped on a Schwinn-Built

Schwinn-Built Bicycles
GUARANTEED FOR LIFE

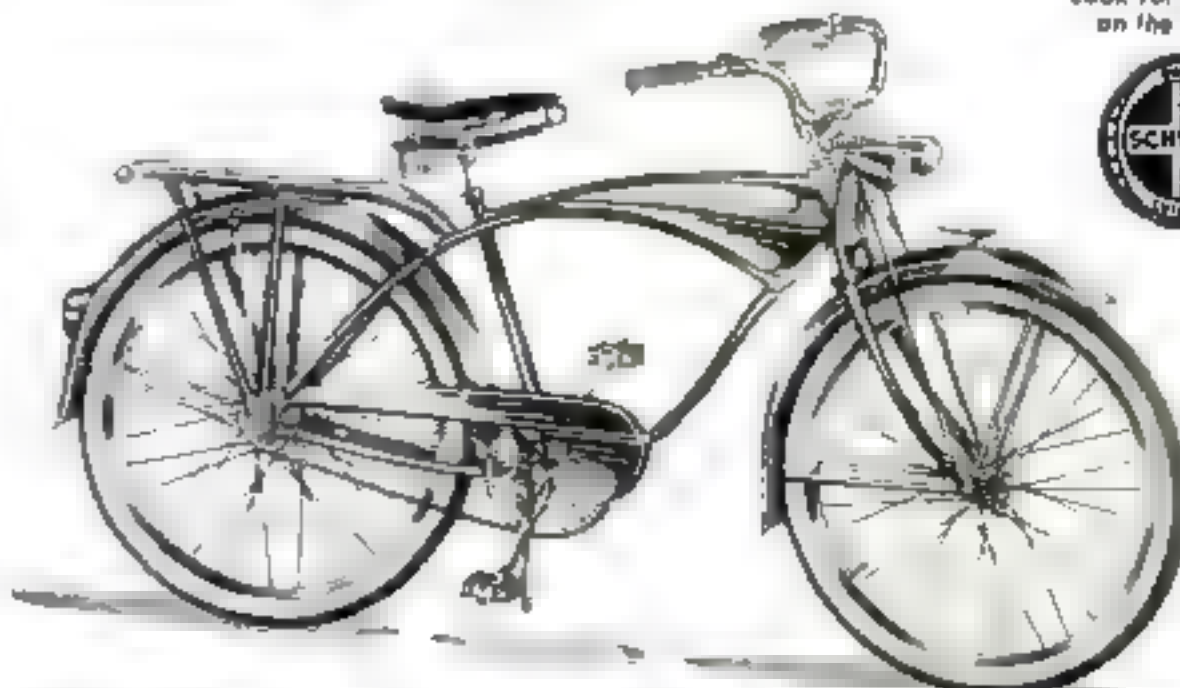
pedal! You too will find cycling a new experience when you ride a Schwinn-Built Bike. It's the ride of your life!

For yourself—for your boy or girl—see the Schwinn-Built before you buy. See their streamlined beauty, test their easy-running qualities, and try their super-safety features. Let the Schwinn dealer show you why these bicycles, which cost little or no more than ordinary bicycles, have the amazing guarantee—the only bicycle guaranteed for life! A wide range of models, prices, lightweight and standard types—at dealers everywhere.

FREE! Movie Cyclorama,

with full-color pictures of Hollywood stars and latest Schwinn-Built models. Write for free copy. Arnold, Schwinn & Co., 1734 N. Kildare Ave., Chicago, Ill.

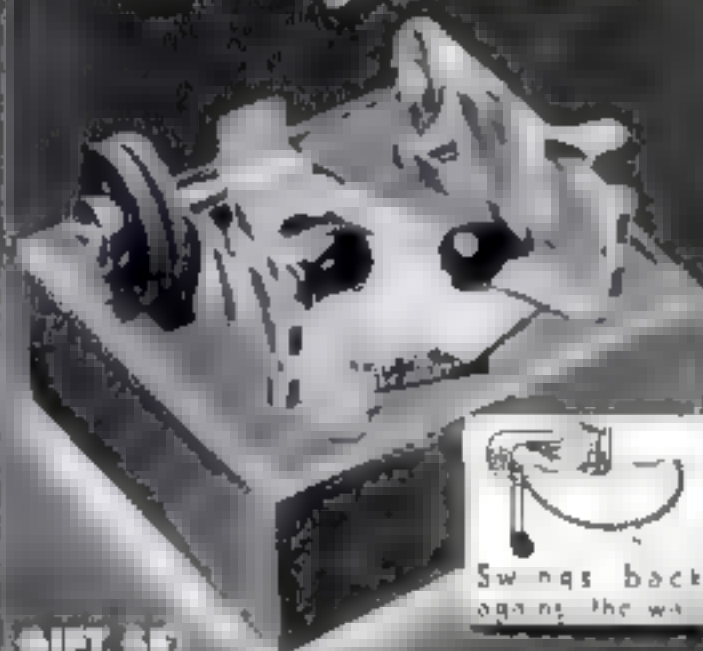
Look for This Seal on the Bicycle



You can choose between graceful lightweights, like the Cantor's ride, or a bike like the handsome Schwinn Auto-Cycle (shown opposite), complete with every accessory. Boys' and girls' models. All Schwinn Built bicycles are built to order and there's a model exactly suited to your needs, regardless of your size or age.

Schwinn-Built Bicycles
GUARANTEED FOR LIFE

FOR EVERY HOME
Everywhere



GIFT SET
SWING-A-WAY

SPARKLING RED AND SILVER GIFT BOX OF SWING-A-WAY ITEMS

Can and Bottle Opener, a disc type cutter. Leaves smooth drinking cup edge. 5 year guarantee. Jar Opener and Cresser, unbeatable for screw caps of all sizes. Knife, Sharpener, keeps kitchen knives sharp.

Order Now for a Merry Christmas

SWING-A-WAY STEEL PRODUCTS, INC.
1439 Merchandise Mart, Chicago
Send at once. GIFT SETS at \$3.95. Can Opener, Knife Sharpener and Jar Opener @ \$4.95. Jar Opener @ \$5.95. Sharpener @ \$4.95. Cash @ \$5.00. For which I enclose ☐ Cash ☐ M. O. ☐ C. O. D.

Name _____
Address _____ City _____

SPEAKING OF PICTURES . . .

... THESE ARE EARLY EXPERIMENTS IN PHOTOGRAPHY AT "HIGH SPEED"



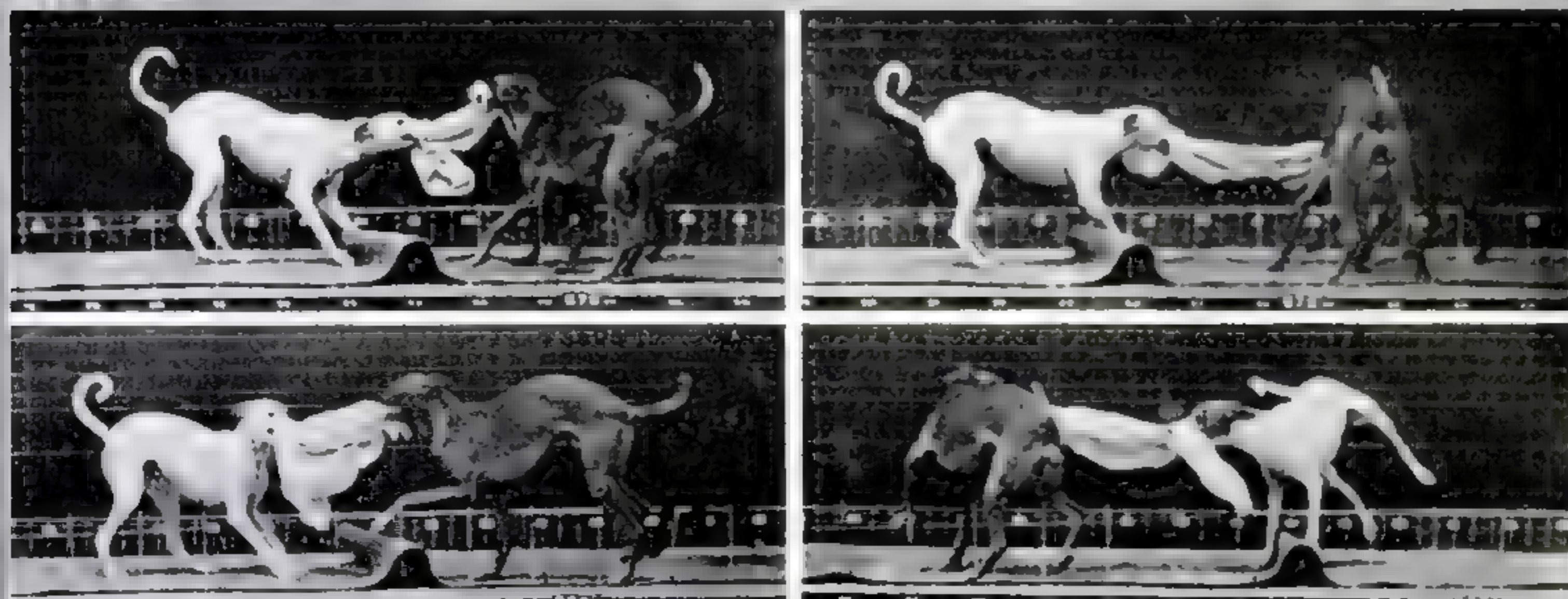
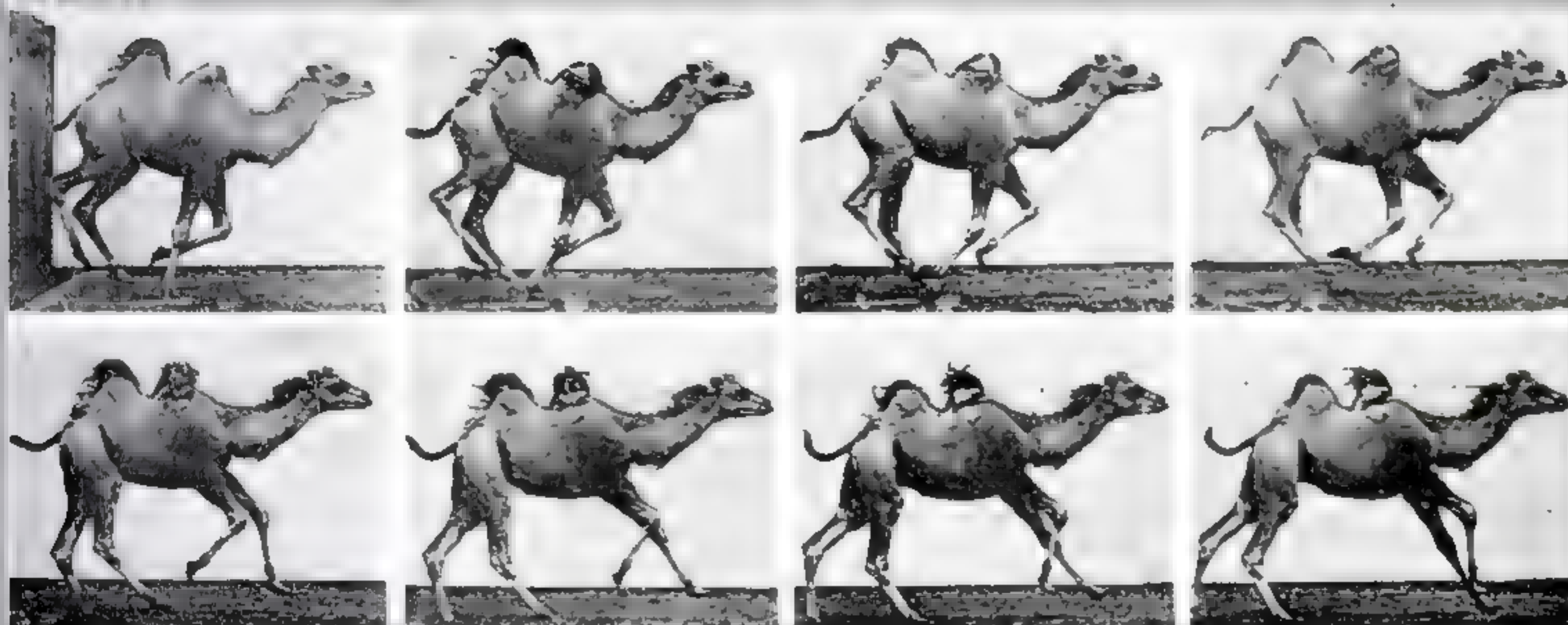
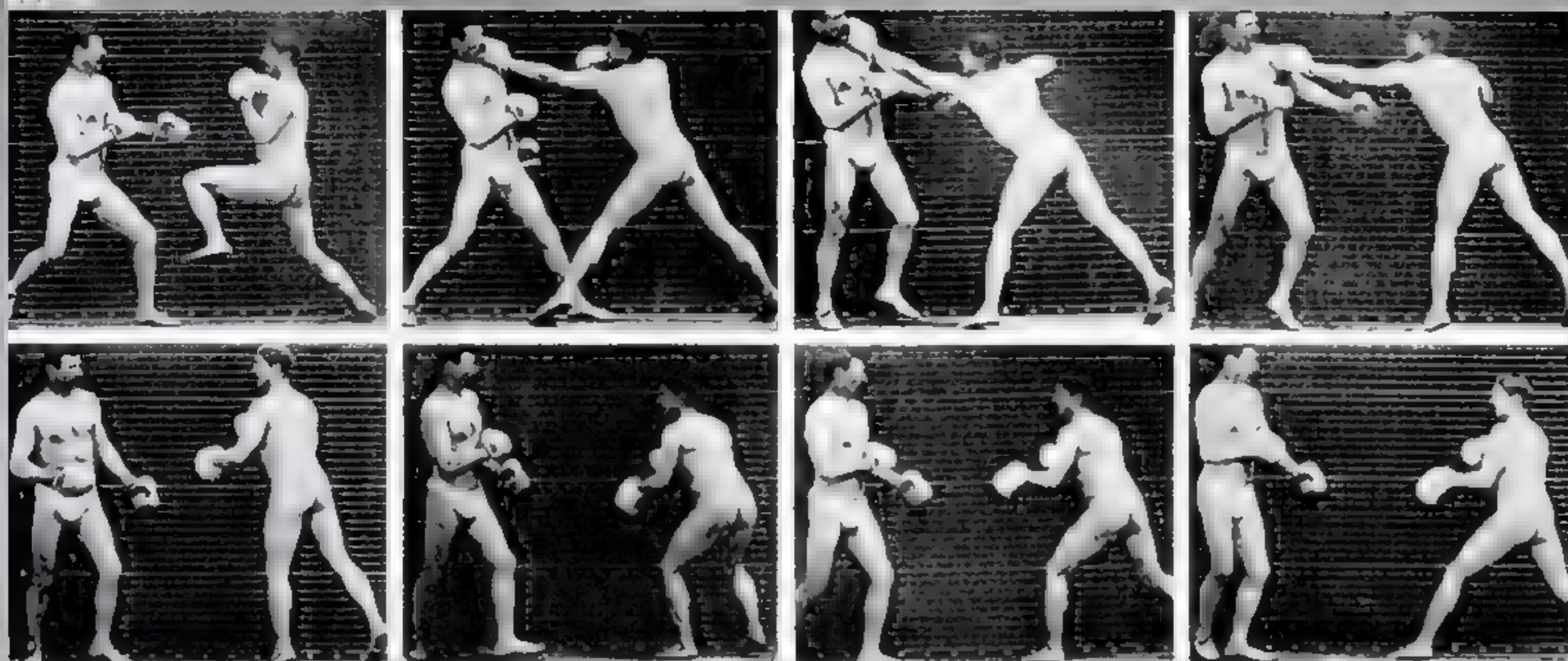
\$25,000 GALLOPING HORSE

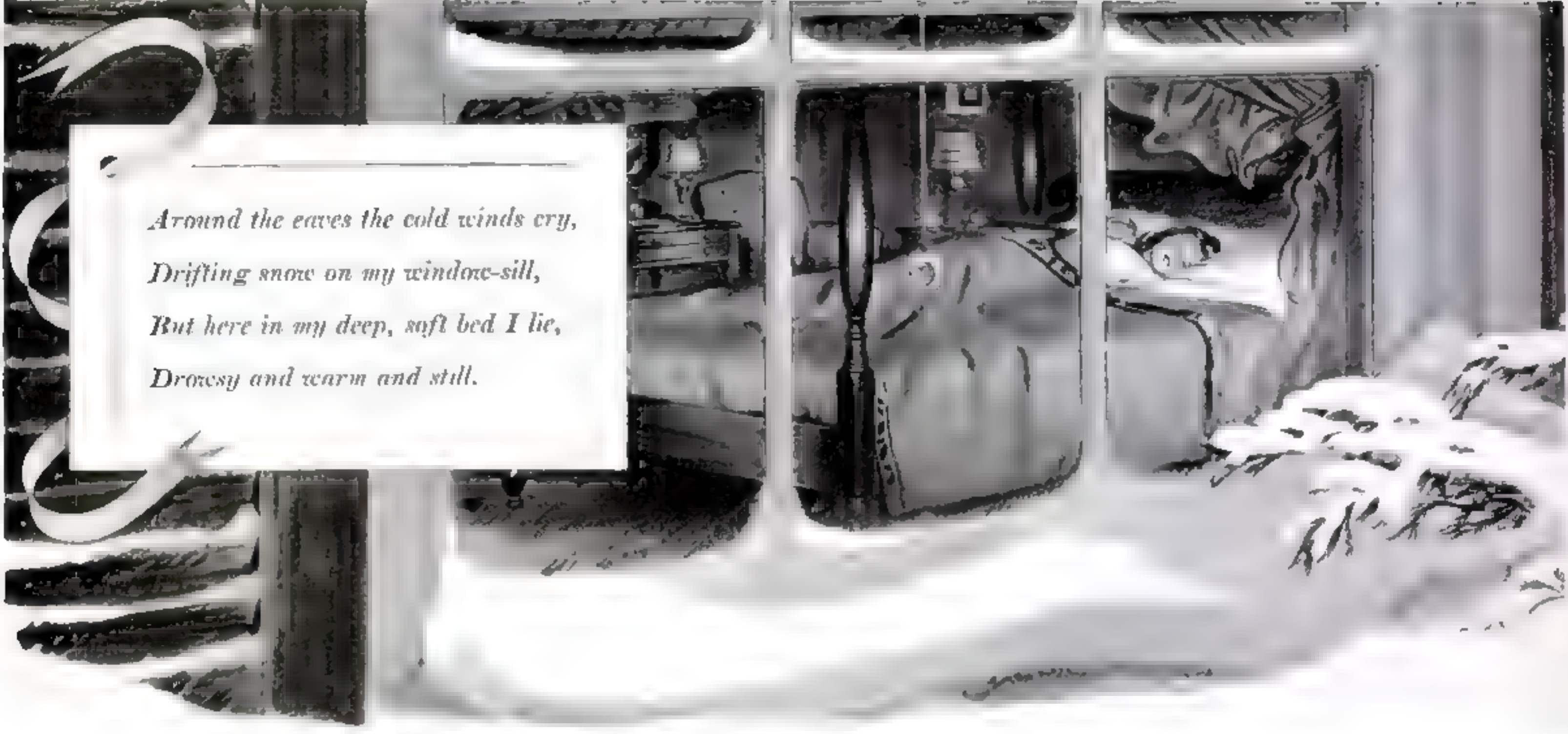
Readers of LIFE are familiar with the high-speed pictures of Orion Mili and Dr. Harold E. Egerton freezing action at 1/500,000th of a second. These pictures, from the collection of George E. Nitzsche of University of Pennsylvania, are also "high speed." But they were taken by halfward Muybridge between 1872 and 1881 and the action is frozen at 1/2,000th of a second. They are among earliest known examples of the "stop-action" technique.

It was in 1872 that Governor Leland Stanford of California bet \$25,000 that a horse at certain gaits lifts all four feet off the ground at once. He asked Muybridge to prove the point and after \$40,000 in experiments Muybridge took the little photograph above that won the \$25,000 bet.

The apparatus Muybridge used to freeze the action of the horse and the other moving objects on these pages he called a zoopraxiscope. As perfected for Muybridge by John D. Isaacs, it consisted of 24 cameras whose shutters clicked in successive exposures that were minutely controlled. Never had artists or scientists seen animals and human beings in motion so clearly.







*Around the eaves the cold winds cry,
Drifting snow on my window-sill,
But here in my deep, soft bed I lie,
Drowsy and warm and still.*

TO ALL LUXURY-LOVING WOMEN ON A BUDGET

A Blanket Invitation

TO THRIFT . . . WARMTH . . . BEAUTY!

YOU'D HARDLY believe that such a blanket, at such a price, is possible! But here it is . . . the *Lady Pepperell De Luxe*, designed especially for you who want thrift, warmth, and beauty all rolled into one!

THRIFT? Costs a great deal less than you'd expect! Yet all the fine advantages of more costly blankets are right there! The Pepperell label assures controlled high quality . . . carefully selected yarns . . . strong interweaving of fibres beneath the firm nap.

WARMTH? A blend of wool for warmth, cotton for strength, rayon for warmth and lustre. A deep nap, firmly tied in . . . heat-retaining qualities that last a long time!

BEAUTY? Ten decorator-selected colors . . . five-inch matching acetate rayon satin binding . . . deep, lustrous texture, delightful to see and feel. A lovely addition to any bedroom!

You will want to look at Pepperell Abbotsford, Peggy Pepperell, and Pepperell Topspun Blankets, too . . . all irresistible invitations to blanket luxury at budget prices!

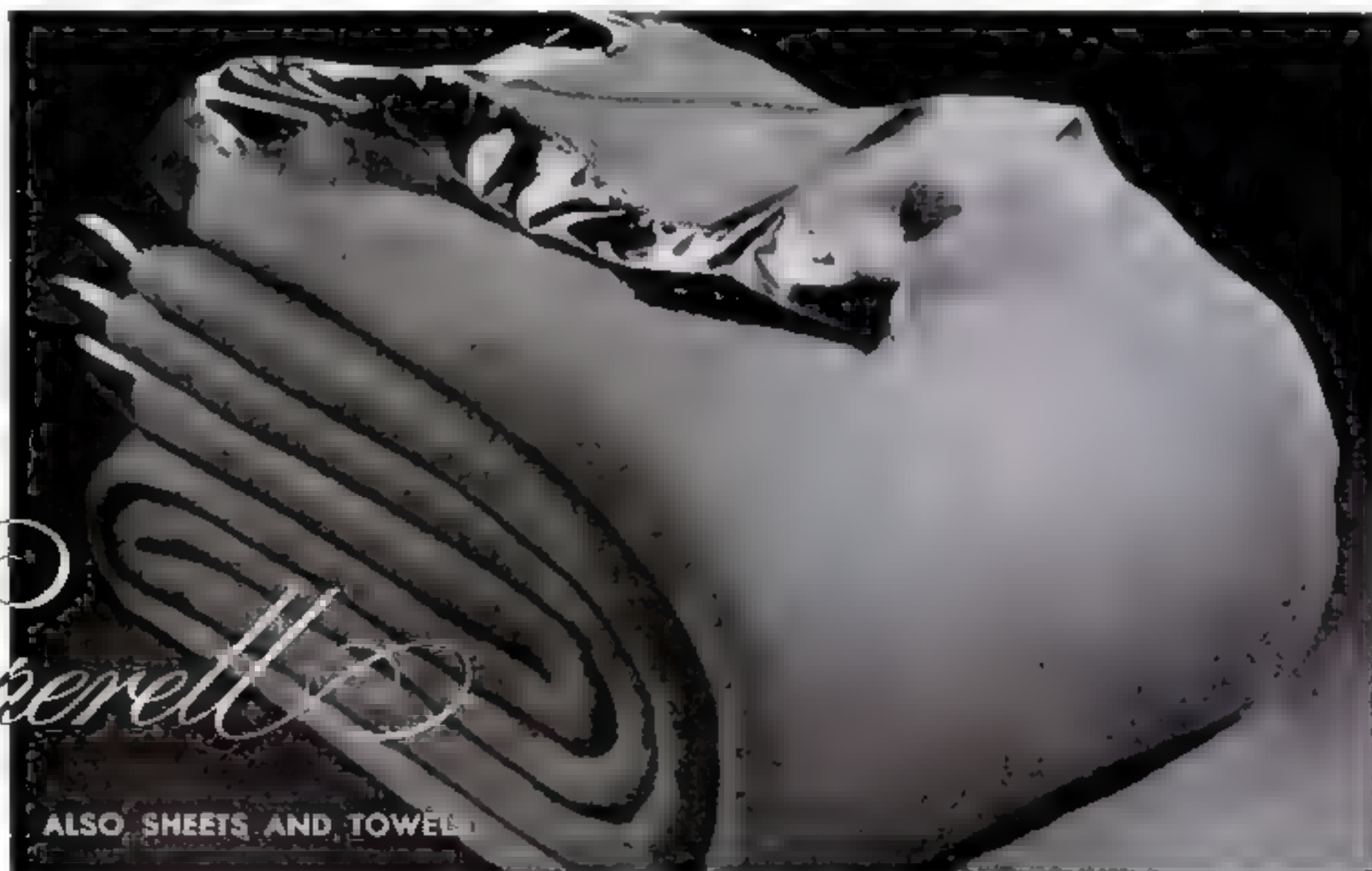
Check! Made of a superior blend of wool, long staple cotton, and spun rayon!

Double Check! Luxuriously proportioned! Six feet wide, seven and one-half feet long!

Pepperell Manufacturing Company, 160 State Street, Boston, Massachusetts.



Lady Pepperell
DE LUXE BLANKETS



ALSO SHEETS AND TOWELS

SPEAKING OF PICTURES

(continued)



A tough day's work for Harry



HARRY NEEDS A LAXATIVE, but he's got a tough day at the office and he doesn't want anything to interfere with work.

So he puts off taking a laxative, puts off getting badly needed relief!



HARRY CAN'T ADD two and two. He gives the wrong answers, gets in wrong; of course, he has an excuse.

But who cares if a fellow is suffering from constipation and a headache?

"Easy does it" for Jim



JIM NEEDS A LAXATIVE, he's got a big day's work ahead, too.

But Jim never puts off till tonight the laxative he should take this morning. Speedy Sal Hepatica for him!



JIM FEELS MORE like himself within an hour. Sal Hepatica acts gently, thoroughly, quickly.

He has a good day. Home from the office, he's ready to take his wife out stepping.

Whenever you need a laxative —take *speedy* Sal Hepatica

DON'T PUT OFF taking a laxative just because you're all dated up. Take speedy Sal Hepatica.

Within an hour usually you're relieved ... gently and thoroughly. Sal Hepatica acts in a natural way, by attracting helpful liquid bulk to the intestinal tract, acts without discomfort, irritation, or griping.



No wonder 3 out of 5 doctors, recently interviewed, recommend Sal Hepatica.

More than a laxative, this sparkling saline gives decided help in counteracting

excess gastric acidity, helps turn a sour stomach sweet again. Next time you need a laxative, try speedy, gentle Sal Hepatica.



SAL HEPATICA

"TIME TO SMILE!" Tune in on EDDIE CANTOR - Wednesdays at 9 P. M., E. S. T.

WHERE THERE'S PEP THERE'S IRON



HE SHOULD DRINK HIS WEIGHT IN MILK each month!* And does, without coaxing...when a teaspoonful of delicious, chocolate-flavored Bosco is stirred in his milk.



BOSCO'S RICH IN IRON and the iron in Bosco is available! Both children and grown-ups need iron to help build good red blood. Try grand-tasting Bosco today. Remember . . . everybody loves Bosco-and-milk!

*Eminent authorities are agreed on one quart of milk a day per child. Thus a nine-year-old, averaging sixty pounds, should drink his weight in milk a month.

Economical! Quick and easy to mix! Simply stir a teaspoonful of Bosco into a glass of hot or cold milk. Delicious!

Buy Bosco today from your milkman or grocer. Bosco Co., Inc., 180 Madison Ave., N. Y. C.

IRON: Relative available amounts in

SPINACH	—
RAISINS	—
BOSCO	—

LIFE'S REPORTS

INSIDE BESIEGED ODESSA

by ALEXANDER KHAMADAN

This is the eighth week that Odessa, seventh largest city in Russia with a normal population of 600,000, has been under siege. Rumanian and German troops surround it on three sides. It is cut off from the rest of Russia except by airplane and by ships on the Black Sea. Odessa is already one of the great sieges of history.

This report was sent to LIFE's correspondent in Moscow by Alexander Khamadan, a Russian newspaperman who is undergoing the siege in Odessa where he represents Pravda, the well-known Moscow newspaper, and Tass, the official Soviet news agency. His report, written in the style of a Russian journalist, is the first full-sized eyewitness account that has reached the U. S. from the beleaguered Russian city.

Odessa (via Moscow by cable)

They've hung a placard outside the telegraph office. You can see it when you turn the corner, climb over the bombed house and trolley car that volunteers are hoisting back onto the track. It says: "We still deliver cables to all parts of the Soviet Union, but for the moment we cannot absolutely guarantee punctual delivery."

In those three words, "for the moment," is written all the confidence, courage and determination in this lovely city. Children are playing under the trees on the avenue. Housewives, still in flowered summer dresses, are filling string bags with fat cabbages and bread. On the other side of the telegraph office two men are hauling up today's program on the cinema facade. Professor Mamlock is the No. 1 feature and *Man With Gun* has been thrown in for good measure. Here beside me an old woman who sells flowers from a wooden kiosk is watering her morning supply. On the warm wind from the west comes the muffled rumble of artillery; the orchestra in the gun pits is tuning up for the morning concert. Discordantly, a distant machine gun rattles six times and is quiet.

This is a beleaguered city and those distant noises almost perpetually remind us of the fact. But they are not the only reminder we have. In the direction of the guns, a black pencil is moving across the sky; maybe it's a Dornier or a Junkers bringing us "eggs," of which there is now no shortage here. Some of these eggs are 2,000-lb. land mines which parachute down in the night from German and Rumanian airplanes onto the great white blocks of apartment houses that climb the hillside to the central summit of the city. These land mines make a mess of our lovely homes and our lives.

This morning relief squads are cleaning up the streets. If you climb the steps from the port below, turn right and walk until you reach the avenue with plane trees, you'll see what happened a few hours ago when it was dark. This wasn't a land mine, it was a bomb. Back walls of houses are still standing and there are still scarlet curtains around the empty window frames of one bombed home. When the wind blows in a gust around the corner and billows them, little clouds of dust fly out like inquisitive insects only to fall back whence



BUILDING BLOCKS AND SANDBAGS FORM BARRICADES IN STREETS

CONTINUED ON PAGE 16

ENTER *Larry, the Laundry-Man's* CASH CONTEST!

FREE \$4,000.00 IN CASH PRIZES

117 Cash Prizes to be Won!

\$1000⁰⁰ FIRST PRIZE

\$500⁰⁰ SECOND PRIZE

15 THIRD PRIZES \$100 EACH

100 FOURTH PRIZES \$10 EACH

LARRY, I WANT 6 ENTRY BLANKS FOR YOUR LAUNDRY CONTEST. I'VE GOT LOTS OF REASONS FOR LIKING THE LAUNDRY.

HOPE YOU WIN THAT \$1000 FIRST PRIZE, MRS. HILL. SEND AN ENTRY FOR EVERY REASON YOU HAVE!

I WON \$1000 IN LAST YEAR'S LAUNDRY CONTEST! IT TOOK ONLY A FEW MINUTES' WRITING, says Mrs. Wm. John Lipfert, Toledo, Ohio



EASY TO ENTER: Just write a last line to this simple laundry jingle:

My laundry does fine work for me
So from washing and ironing I'm free,
Whether heavy or light
Every piece is just right

DO YOURSELF A DOUBLE FAVOR! Enter this easy jingle contest that may bring you \$1,000 cash! And get dreary washday off your hands by sending your wash to the laundry!

THINK OF WINNING \$1,000 Lady, what you couldn't do with that money! Tuck it in the bank, make a down payment on a home, buy a new car, get a fur coat. Or think what that \$500 second prize would mean to you. Or one of those \$100 prizes! Then there are 100 additional \$10 prizes as well! 117 cash prizes in all.

SO EASY TO WRITE A LAST LINE to that simple little jingle. Send a bundle of wash to the laundry and see all the good last lines you'll think of about whiteness, smooth ironing, perfect folding, brightness of colors, courteous service, the whole free day each week put back in your life.

HURRY! ENTER NOW! Get in as many entries as you can—start today on! Get your entry blanks from your laundry routeman or use the back of any laundry list. Enter today! Enter often! You may win \$1,000 in cash!

ASK YOUR LAUNDRY-MAN FOR ENTRY BLANKS! SEND IN AS MANY ENTRIES AS YOU WANT.

CUT OUT THIS INFORMATION TO HELP YOU ENTER! 117 CASH PRIZES TO BE WON!

HINTS FOR LAST LINES: Finish the jingle with a line that rhymes with "me" and "free." It's so easy. Your entries will practically write themselves! How's this sample last line:

"And it's cheered by the whole family." There are plenty more rhyme words like, "see," "be," "wee," ... and many others, too. **TRY THE LAUNDRY**—and get an in-

spiration. What a beautiful wash you'll get back. Towels soft and fresh and fluffy! Sheets and pillowcases dazzling white and perfectly ironed! Your hubby's shirts neat as

new, and the collars so smooth they fit without a wrinkle! And what a joy to turn everything over to your courteous laundry driver and turn Monday into a holiday.

HERE'S ALL YOU DO! YOU MAY WIN \$1,000—ENTER TODAY!

1. TELEPHONE YOUR LAUNDRY—If your laundry routeman hasn't already left you an entry blank, just call the laundry and say you want to enter the big \$4,000 cash contest advertised in LIFE.



2. YOUR LAUNDRY SALESMAN will bring entry blanks promptly. Write a last line to the simple jingle above. Write your entry on an entry blank or a laundry list. Send in lots of entries.



3. MAIL YOUR ENTRY before midnight, Nov. 15, 1941, to Laundry Contest, P. O. Box 94, Grand Central Annex, New York, N. Y. Hurry! Enter this big contest today!

HURRY! THIS CONTEST CLOSES NOVEMBER 15, 1941

FOLLOW THESE SIMPLE RULES

1. Print or write plainly your last line for the jingle using sufficient words to complete it. Your last line may contain any length of line. It does not matter if the line is long or short, but the last word must rhyme with "me" and "free." Write on no entry blank or on the regular laundry list. Send your entry in a self-addressed envelope.
2. Mail entries to Laundry Contest, P. O. Box 94, Grand Central Annex, New York, N. Y. Be sure to use sufficient postage. You may enter the contest as often as you like. Each entry must be written on a separate entry blank or laundry list.
3. The contest opens October 17 and closes November 15, 1941. All entries must be postmarked no earlier than October 17 and no later than midnight, November 15, and must be received in New York City, November 22. The following prizes will be awarded in this contest:

**First Prize \$1,000 - Second Prize \$500
15 Third Prizes \$100 each
100 Fourth Prizes \$10 each**

4. Entries will be judged for originality, suitability, and aptness of thought. Decision of the judges will be final. Duplicate prizes will be awarded in case of ties. Fancy entries will not count extra. No entries will be returned. Entries, contents, and ideas therein become the property of Compton Advertising, Inc.

5. Any resident of Continental United States may enter except owners and employees of commercial laundries, dry cleaning plants, members of the allied trades, employees of Compton Advertising, Inc., and their families. Contest subject to Federal, State, and local regulations.

6. All prize winners will be notified by mail about three weeks after the close of the contest. A complete prize list will be available at your local laundry or may be obtained by writing Laundry Contest, P. O. Box 94, Grand Central Annex, New York, N. Y., after December 10.

Contest limited to residents of Continental United States.

COPYRIGHT 1941, COMPTON ADVERTISING, INC.



Meet Chief Pilot Fulton M. Moore, in charge of flight operations at Parks Air College, East St. Louis, Ill., where hundreds of...



...U. S. Army Air Corps Aviation Cadets and commercial aviation students are being trained. For the safe lubrication of its training planes, this famous aviation school relies on Sinclair Pennsylvania Motor Oil. You can give your car this same, sure protection by...



...buying Sinclair Pennsylvania Motor Oil at your Sinclair Dealer. Use the aviation tested oil to reduce wear — make your car last longer. And ask your Sinclair Dealer about Sinclair-ize for Winter Service.

LIFE'S REPORTS

(continued)

they came. It does not look as though they'll ever be clean again. But for us who love this place they are not curtains any longer—"they are flags that we'll carry into victory."

Varvara Petrovna said that and she ought to know for they are her curtains. She lived in that house yesterday with her children. All the rubble on the floor is hers, the smashed tea-cups, the saucepan hanging on the wall drunkenly, like a beaming one-legged sailor on a carousel. Even the smoke swaying over the ruins belongs to her. Her two children, Ivan and Michael, who have eyes like polished shoe buttons, are angriest with the Germans. It was their home, too, and Ivan lost his "tank" in the raid and he won't get another until his father comes home from the front and can take him to the toy store. Michael is not as rough as Ivan—he is bewildered because he's only 3 and frightened by this desolation. He says it smells very bad.

Everyday men and women leave the city in large numbers. But they are not refugees—they are soldiers going out to defend their homes and their traditions against the relentless enemy. Men say goodbye to the women beyond the city limits where the parks begin and where there are little summer villas and modern sanatoria in the trees. From here you can see the green hill from whose summit Antonescu stared at this forbidden prize through large German binoculars and from which he issued the order that enemy planes dropped on us on Aug. 8. The orders said: "The main forces of my army are at the gates of the city and other large units are following them. Do not offer resistance. Surrender the city. I promise mercy to the population. Otherwise, when I do take Odessa in two days' time, I shall show no mercy to anyone." All that day the city cleaning department kept busy sweeping up torn pieces of paper which was Odessa's answer to this impertinence.

Not all the men who go out from the city limits every day and night are regular soldiers of the Red Army. Many of them are citizen soldiers who, after the day's work in factories, schools, hospitals or public

4 OUT OF 5 MAY BE GAMBLERS GINGIVITIS

Attacking Thousands!



TOO LATE: She neglected tender gums which bled a little when she brushed her teeth. These may be the first warning signs of Gingivitis—a common gum inflammation attacking thousands—

NEGLECT OF BLEEDING GUMS



of Gingivitis often leads to dreaded Pyorrhea which only your dentist can help. See your dentist every 3 months. Between times one very best way to help guard against Gingivitis is by massaging your

gums twice daily with Forhan's—the toothpaste prescribed by so many dentists.

BRIGHTEN DINGY TEETH to their natural sparkle. Forhan's is the *first* and *original* toothpaste for both massaging gums to be firmer—more able to ward off infection and for cleaning teeth to their natural bright luster. Forhan's even helps remove acid film that so often starts tooth decay. Costs no more than ordinary toothpastes—so enjoy its ADVANTAGES! At all drug and dept. stores. Week-end size at the 10¢ stores.



use

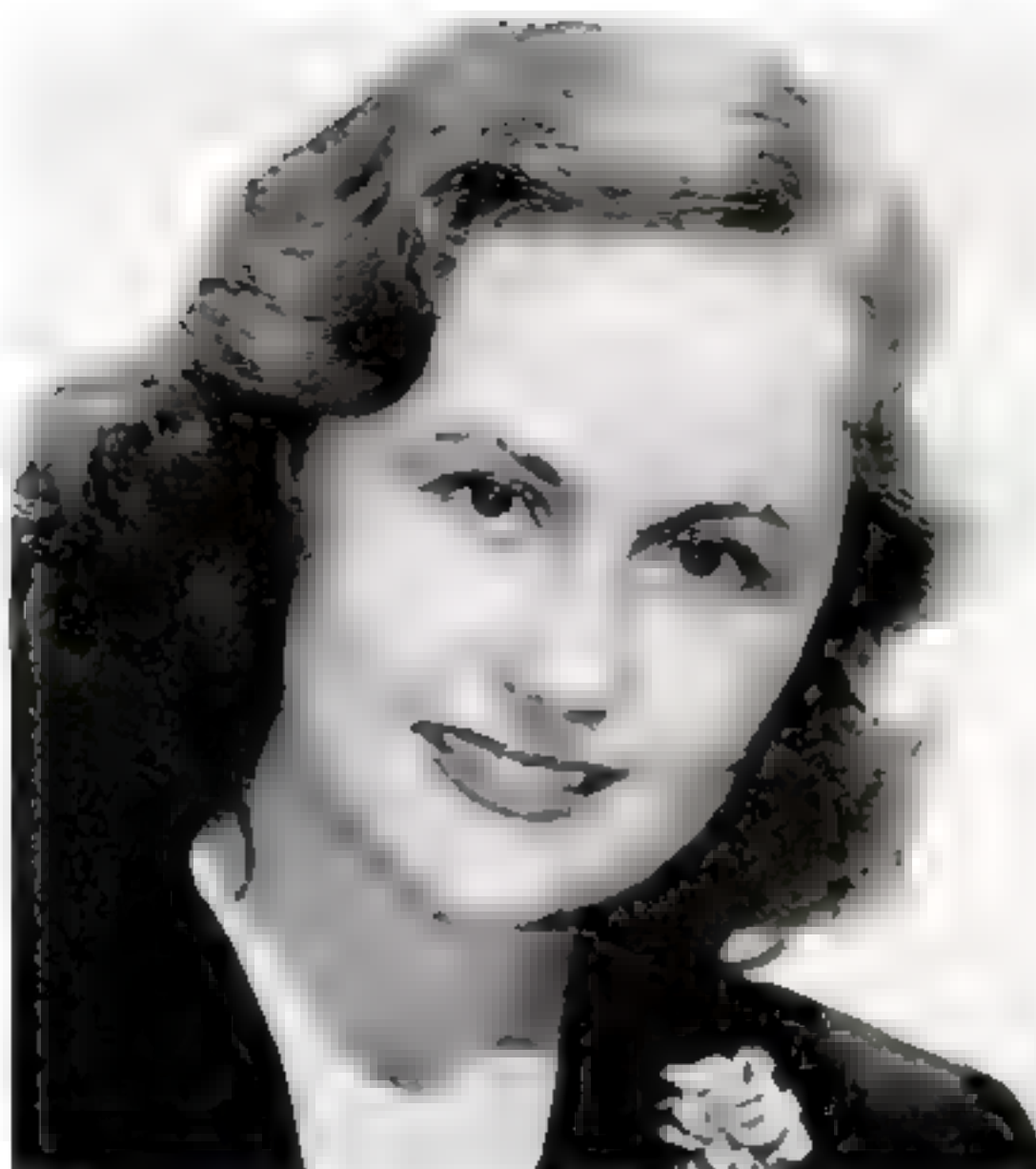
Forhan's
with massage

FOR FIRMER GUMS — CLEANER TEETH

CONTINUED ON PAGE 18

says
**LUCY
MONROE**

*Star of Opera, Radio, and the Concert
Stage; One of America's Best-Dressed Women*



"Star Spangled Soprano" is the name by which beautiful Lucy Monroe is known to millions. At more than 1000 public festivals she has been chosen to sing the national anthem. She is widely regarded as one of the greatest lyric, opera and concert singers in America. Lucy Monroe has also starred in musical comedy and is heard Sunday nights on NBC's "Manhattan Merry-Go-Round." Keenly interested in style and fashion trends, she was selected by the Fashion Academy as the "Best-Dressed Woman" in the "All American" group. "The new Lord and Lady Elgins," she says, "combine color, line and smartness into patterns which are helping to make America the world's style center."

*"Superb creations—proving America now
leads the world in style!"*



Lady Elgin. 14K natural gold filled. No. 4307B. \$52.50



Lady Elgin. 14K natural gold. No. 4205A. \$55.00



Lady Elgin. 14K natural gold filled. No. 4302A. \$50.00

ELOQUENTLY the new Lord and Lady Elgin watches praise their owners' good taste. Eloquently, too, they proclaim America's new leadership in style creation . . . her supremacy in the field of fine watchmaking.

Custom smartness is to be found in every detail of these master timepieces. The cases are platinum . . . gold . . . or 14K gold filled. There are high-curved crystals . . . unique tinted dials.

No Lord or Lady Elgin has fewer than 19 jewels. All include Elgin's famed technical advances: the patented Elginium hairspring* and the Beryl-X balance, both of which are rustproof, non-magnetic. Each watch is accompanied by its



(Above) Lord Elgin. 14K natural gold filled. No. 4608A. \$55.00

(Below) Lord Elgin. 14K natural gold filled. No. 4802A. \$50.00

own individual Elgin Observatory Certificate for timekeeping ability proved in rigorous tests in a great time observatory.

Thoroughly American! Elgin is the world's largest-selling fine watch made in America. And today Elgin's skilled craftsmen are doing their part for defense, too. In answer to the government's call, Elgin is making precision instruments for army, navy and aviation use.

The new Lord and Lady Elgins are priced from \$50.00. Elgin De Luxe watches start as low as \$37.50. Slightly higher in Canada. All prices are subject to change without notice. Elgin National Watch Company, Elgin, Illinois, U. S. A.

Lord Elgin

21 JEWELS

Lady Elgin

19 JEWELS

*Patent Nos. 1,974,695 and 2,072,489

GREAT WINTER TEST!...



THRILLING RESULTS!...



Fewer Colds! Shorter Colds!

Imagine getting through the winter with less sickness, less worry and expense due to colds! ... That's what happened in a test that lasted 154 days and included 2,650 school age children ... Vicks ABC Plan demonstrated its real worth. Reports of Doctors show that the children who followed this simple home-guide had fewer colds ... shorter colds ... actually less than half as much sickness from colds. Think of that! Now Vicks ABC Plan may do less for you and your family—or it may do even more ... IT'S CERTAINLY WORTH TRYING ... And here is all you need to do ... (A) Just observe a few simple health rules. (B) Use Vicks Va-tro-nol at the right time. (C) Use Vicks VapoRub at the right time



AN UNUSUAL RECORD... Jim Bob Caudle, Robert Wells and John Taylor of Kernersville, N. C., followed Vicks ABC Plan for five winter months. Result—no absences from school due to colds.

When to Use These 2 Clinic-Tested Medications

AT FIRST SNIFFLE, SNEEZE—or even the slightest sign of nasal irritation—put a few drops of Vicks Va-tro-nol up each nostril and feel this special medication go to work. Va-tro-nol is designed to aid your natural defenses against colds and help prevent many colds from developing ... IF YOU SHOULD HAVE A HEAD COLD, Va-tro-nol does three important things to relieve distress ... (1) Shrinks the swollen membranes. (2) Soothes the irritation. (3) Helps to clear out the nasal passages. And quickly makes breathing easier! Follow the complete directions in the folder.



Clinic-Tested
**VICKS
VA-TRO-NOL**

IF A COLD SHOULD STRIKE—slip by precautions—relieve misery the IMPROVED Vicks way. This 3-minute treatment makes Vicks VapoRub give EVEN BETTER RESULTS THAN EVER! ... PENETRATES to upper bronchial tubes with soothing medicinal vapors ... STIMULATES chest and back surfaces like a warming poultice ... WORKS FOR HOURS to relieve coughing and congestion in upper breathing passages, ease muscular soreness or tightness. To get this improved treatment with all its benefits, follow simple directions in the package.



Clinic-Tested
**VICKS
VAPORUB**

You'll Find Complete Details of Vicks ABC Plan in Your Package of Vicks

LIFE'S REPORTS

(continued)

services, shoulder rifles and march out to take their places in the line of the city's outer defenses

And not all of those women who nightly go out beyond the city limits there hand over food parcels to their men and return home. Some of them—and not only the younger ones—go on toward the front and, in the lines that constitute the outer perimeter of defense, do their jobs as nurses, cooks, and even telephone operators with the duty of transmitting the orders that may mean the difference between life and death. Nina Toporova is one such woman. Before the war she was studying at the university here to be a doctor, but all the academic side of her work is over now and will remain over until the end of the war and we are free again. She is a jolly, plump girl with a beaming, homely face and she says, "I was to have graduated this year but duty has brought me to the front and in firing



BLOCKS OF FLATS IN ODESSA

positions I've learned to be a pretty good doctor. Necessity has made me so. That is the way I am defending my home town"

Nina Toporova has seen something of the struggle for this place. The front is so close that when men get leave, they hitchhike home or even walk. Nina was up at the front yesterday when the enemy was putting down the barrage preparatory to the infantry attack. "Fifteen thousand shells and mortars they plastered us with before they started," she says. "Then I could see the infantry advancing in thick columns. Battalion after battalion came on, the banners flying on the left flank of each unit—just like I had imagined it from picture books, only this was real. I was not frightened. It was so beautiful as well as being horrible. Our men let them come close before

CONTINUED ON PAGE 28

SAVE

A FEW MINUTES A DAY TO MASSAGE SCALP AND HAIR VIGOROUSLY



with this common-sense hair tonic

JERIS

ANTISEPTIC HAIR TONIC
At All Drug Stores and Barber Shops



Desbitt's
is Good..



5¢

IMAGINE! Besides washing clothes, a BENDIX saves you ten other washday jobs!



LOOK! A BENDIX DOES ALL THESE ELEVEN JOBS!

- | | | |
|--|-------------------------------------|-----------------------|
| 1. Fills itself with water | 4. Changes water for each rinse | 8. Damp-dries clothes |
| 2. Controls water temperatures for different fabrics | 5. Rinses clothes | 9. Cleans itself |
| 3. Washes clothes | 6. Rinses clothes <u>again</u> | 10. Drains itself |
| | 7. Rinses clothes <u>third</u> time | 11. Shuts itself off |

... AND ONCE YOU'VE TURNED THE STARTING DIAL YOU DON'T EVEN TOUCH THE BENDIX!

Holds more clothes by half than the average washer! You just put the dry clothes in the Bendix Home Laundry, and ...

No water touches your hands! You set two controls—one takes care of water temperature, one starts the Bendix. Add soap and ... that's *all*! You're *through*! The rest of the work is done by the Bendix, *all by itself*! Right away, it ...

Washes clothes thoroughly, immaculately! They're lifted and tumbled through suds, hundreds and hundreds of times—gently, carefully—without the wear and tear of an agitator! Then ...

Three rinses in three changes of water! The dirty water is drained away, and the Bendix tumbles the

BENDIX

AUTOMATIC HOME LAUNDRY

clothes through *three separate rinses*! Each and every rinse equals hundreds of tiresome dousings by hand! And yet ...

The Bendix uses less water and less soap than you'd use with the average washer!

No wringer! No danger! Isn't that *grand*? The water is *whirled* out of the clothes as the Bendix spins them

'round and 'round! They're damp-dried, fluffy, and ready for the line! And now ...

No set-tubs or floors to clean! Think of it! And no machine to scrub, either! The Bendix has sprayed and cleaned itself—then automatically shut itself off!

Look! It's easy to own a Bendix! Liberal allowance for your old washing machine on a new, modern Bendix Home Laundry! Easy payments made *still easier* by savings on water, soap, and clothing wear! Automatic washing, originated by Bendix, has brought thrilling washday freedom to more than a quarter of a million homes all over the country! For full information on what the Bendix Home Laundry can do for *your* home, mail the coupon today!

Delighted Users Speak For More Than A Quarter Million Bendix Owners

"Washing baby clothes would be a full-time job for me if it weren't for my Bendix. But it does all the washing so I have plenty of time for baby and for my regular housework."

Mrs. Adeline Davidson, Denver, Colorado

"My maid hated washing clothes as much as I did. No fear of her leaving me now, though. Not with a Bendix in the house. She's never behind in her work now!"

Mrs. Pauline Gugenberger, Wilmansett, Mass.

"Washday doesn't put me to bed, too tired and worn out to move. I go out and enjoy myself on washday now, because, you see, my Bendix takes care of everything."

Mrs. Morris Verson, St. Paul, Minn.

"I have a new dress I wasn't counting on this year. All because of my new Bendix too ... it's so economical to use!"

Mrs. H. B. Driver, Oklahoma City, Okla.



Copyright 1941, Bendix Home Appliances, Inc.

BENDIX HOME APPLIANCES, INC.
3345 Sample Street, South Bend, Indiana

Please send me your booklet, telling the whole story of the Bendix, inside and out ... with illustrations and descriptions of all models. No obligation to me

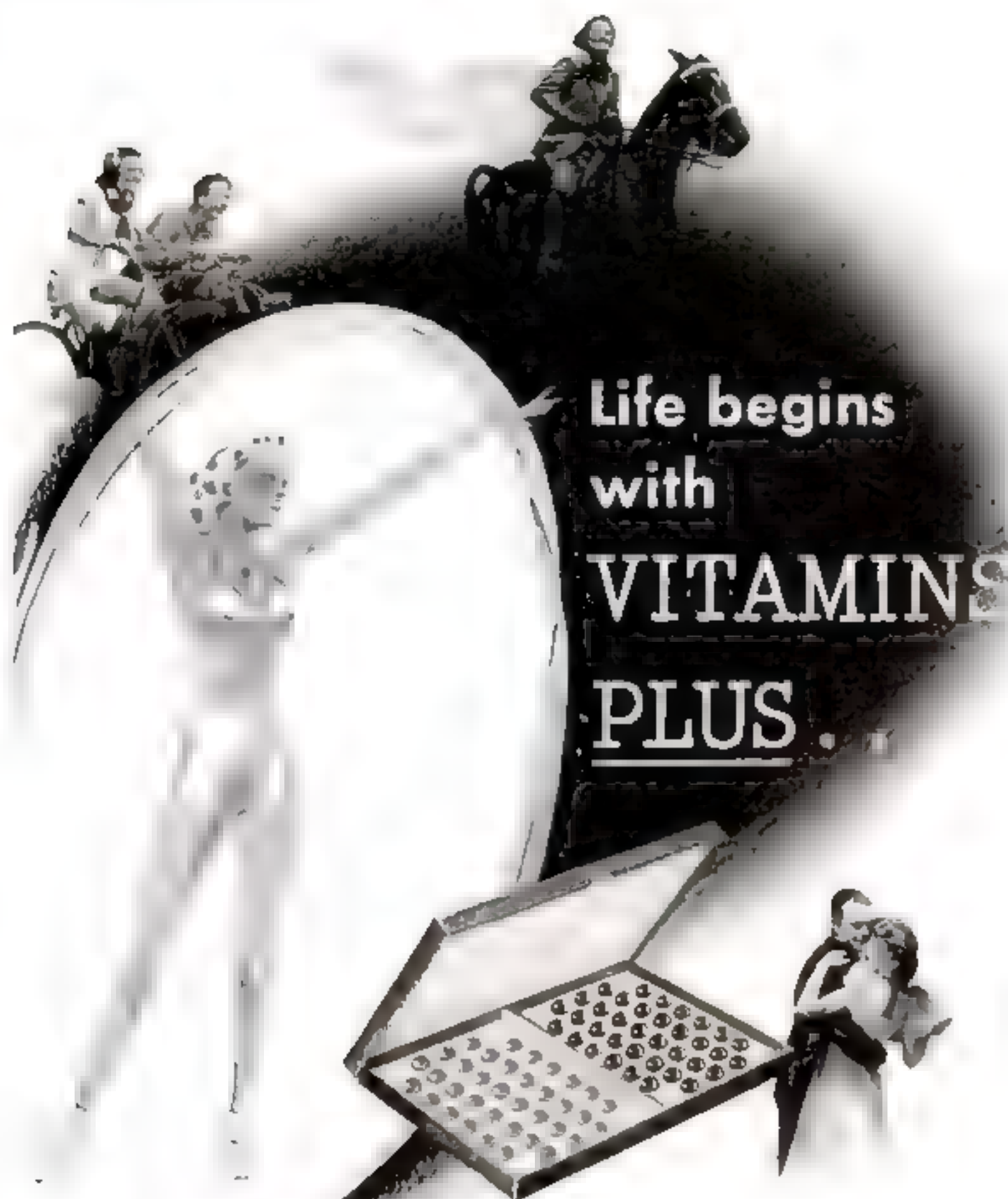
Name

Address

City

County State

Just paste this coupon on a penny postcard.



Life begins with VITAMINS PLUS.

Life begins with Vitamins Plus... is a cheerful, direct way of saying that science has now proved that buoyant health can follow the right selection of a well-rounded, nutritious diet plus additional vitamins in a supplementary form, such as VITAMINS Plus.

Hundreds of thousands of intelligent, informed Americans have heeded this promise of science and are today benefiting in health and vitality by the use of VITAMINS Plus.

Don't take a chance on vitamin deficiencies which may lead to listless, under-par days that would rob your life of zest and sparkle. Edginess and nervous irritability caused by lack of vitamins are hard on you—and a definite handicap to your success.

Why not begin—today—to take VITAMINS Plus! The two tiny, pleasant-to-take capsules, which constitute the VITAMINS Plus routine, contain high potencies of essential vitamins A, B, C, D and G—especially high in all-important vitamin B₁...with liver concentrate and iron for added effectiveness. Don't chance a lack of the vitamins you need. It's so easy to be sure. Ask for VITAMINS Plus at your drug or department store. Discover the difference!

18 days' supply \$1.50
36 days' supply \$2.75
72 days' supply \$5.00

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LIFE'S REPORTS

(continued)

they opened fire, and then they let them have it. It was a real hurricane of fire, I can tell you. The enemy just seemed to disappear, like that, as though it had been a trick. But it was not a trick; it was real."

Later they brought the prisoners into the city. These tired Rumanians seemed to enjoy getting away from the battle just as the children enjoyed watching them march through the streets. Perhaps "march" is too strong a word for those worn-out men who begged bystanders for food. The people here are famous for their hospitality and they did not refuse it even to the enemy who is trying to destroy them. Bread and sugar was what they wanted most, as well as *schts* which is cabbage soup, for which this town's cooks are famous. They seemed surprised to discover we had meat to give away.

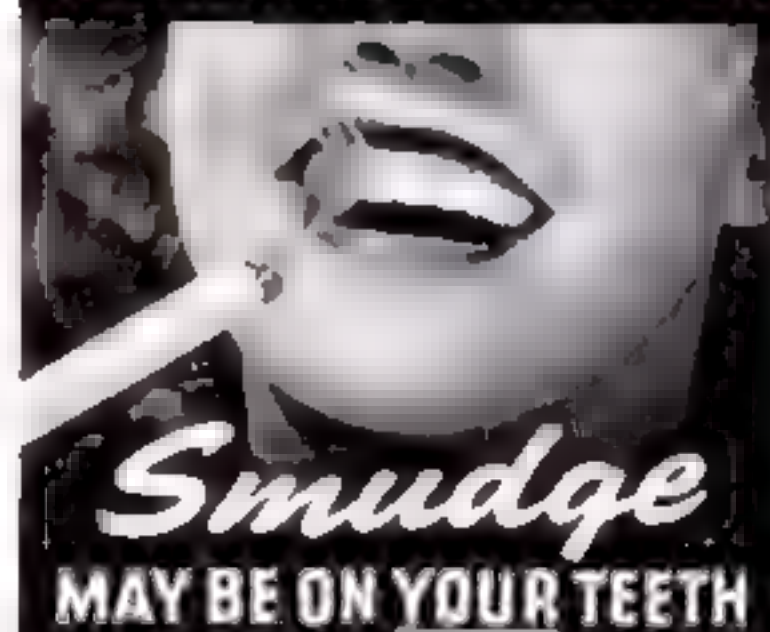
But even though we are hemmed in here and our highway to the rest of the Soviet Union is only along the water of the Black Sea, life goes on as normally as possible. The schools are open and this term's craze is collecting souvenirs. The 14- and 15-year-olds have started their own museum of war trophies, and in a large sunny classroom they have classified and labeled all kinds of shrapnel, cartridges and—what they are most proud of—a collection of Rumanian bayonets which they keep as well polished as good housewives' cooking pots. But it is queer to attend a botany lesson in the school garden and hear the sound of distant artillery.

As far as possible we try to relieve the strain on the country's war potential by making what we can for ourselves, and we do pretty well, too. Day and night, seven days a week, our factories are turning out everything from armor plating to hand grenades and rifle cartridges. Even at home the more ingenious workers are turning everything they can lay hands on into defensive weapons. While the workers at the railway plant are coating railroad engines and coaches with thick armor, other workers are sitting on their porches turning bottles into "Molotov cocktails," filling caviar tins with



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In Argentina: C. Correa, 2570—Buenos Aires

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BE WARNED when your mirror shows dingy smoke smudge on your teeth. Any smudge does steal the charm from your smile

BRYTEN UP with IODENT Tooth Paste or Powder twice a day Use IODENT No. 2, for hard-to-bryten teeth. You'll like refreshing IODENT and the way it sparkles your smile! Made by a dentist, guaranteed safe



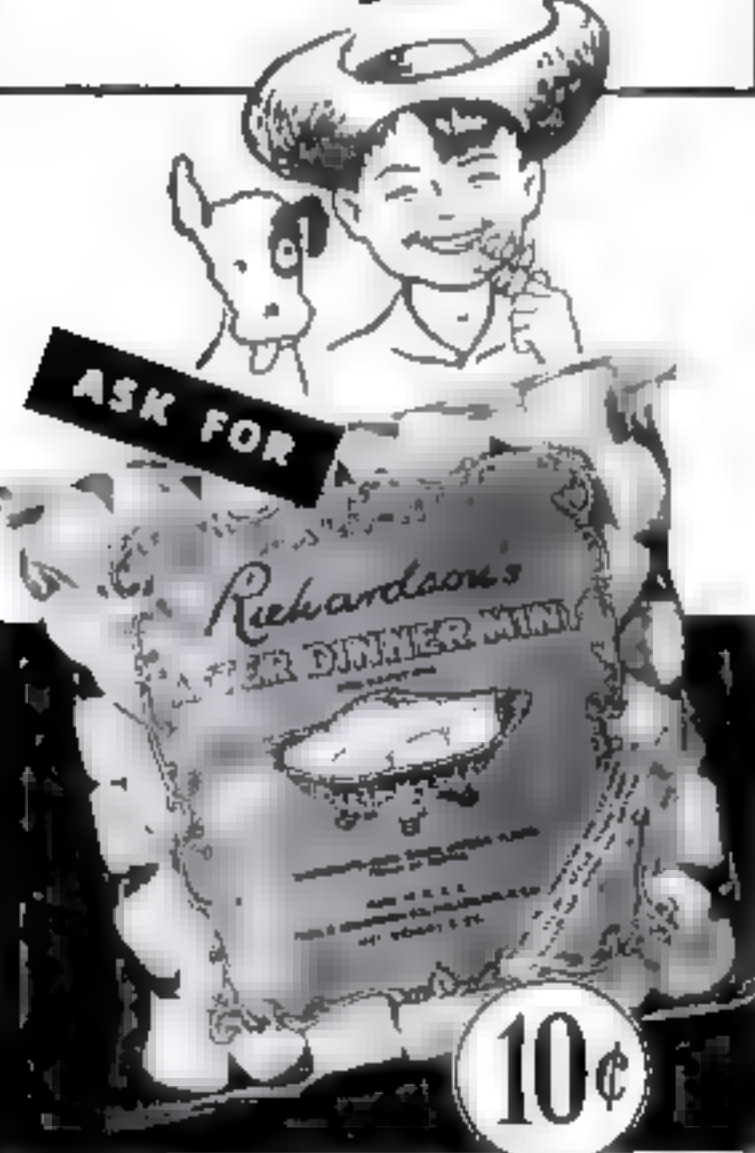
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for America's
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Campaign



VITAMINS—
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MINERALS—to rebuild
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to sweep away poisons

SUN SWEET
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MINT
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of this Good Green
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**ALSO, After Dinner Patties, After Dinner
Jelly Centers and After Dinner Striped Mint.**
ON SALE at five-and-tens, neighborhood
groceries, super-markets, and drug stores.

LIFE'S REPORTS

(continued)

more deadly eggs than those of sturgeon, and even repairing old, broken sporting guns that have been forgotten in the years of peace.

With spades we dig firing positions and trenches past which the enemy has never made his way. With hatchets we cut trees to strengthen these positions on which the safety of so many people depends. But when the war began our supply of these commodities was no more than the usual for peacetime requirements. In the past few months

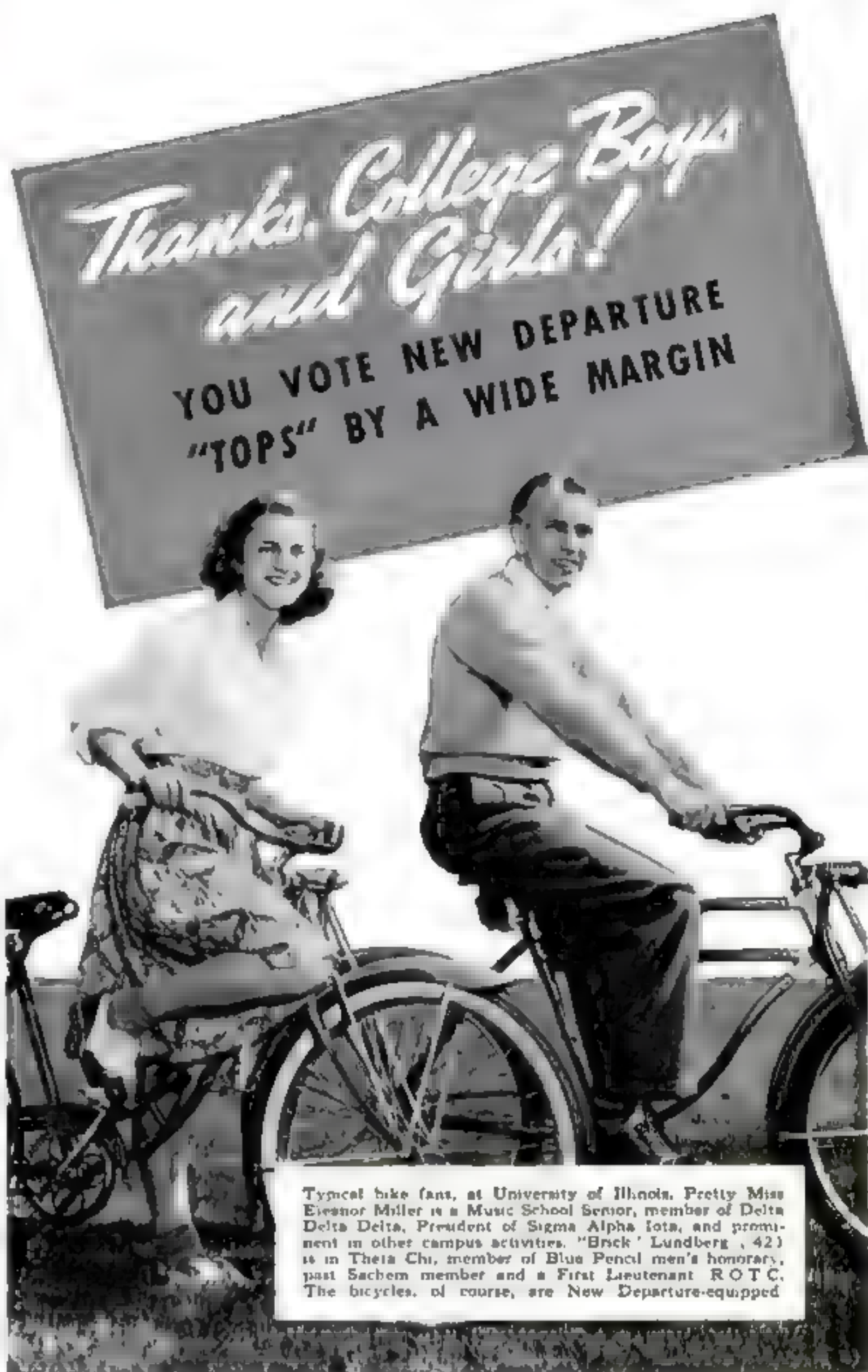


ODESSA'S VOLUNTEER NURSES

the people here have volunteered to turn out a quantity sufficient for our needs. More than 100,000 spades and shovels have come from amateur factories. Children as well as men and women have chopped out hafts for our almost equally great supply of new axheads. In this way Odessa's factories have been able to concentrate on the production of more essential materials of war—explosives, caterpillar tractors, guns—and above all, perhaps, the rapid repair of any vital material damaged in battle.

The walls of some of our public buildings are covered not only with the daily communique printed so large that everyone can read it, but with pictorial representation of the more heroic efforts of our fellow citizens. For this purpose we use the "comic strip" technique of telling a coherent story in a series of colored drawings that leave no room for doubt as to their exact meaning. Piotr, the partisan who slipped into enemy lines and destroyed several of their tanks, is one of the most popular subjects and every child here now wants to emulate him. The recent American-British-Russian conference at Moscow was illustrated by three arms

CONTINUED ON NEXT PAGE



Typical bike fan, at University of Illinois. Pretty Miss Eleanor Miller is a Music School Senior, member of Delta Delta Delta, President of Sigma Alpha Iota, and prominent in other campus activities. "Brick" Lundberg, 42, is in Theta Chi, member of Blue Pencil men's honorary, past Sachem member and a First Lieutenant ROTC. The bicycles, of course, are New Departure-equipped.

Everyone knows that New Departure is America's favorite Bicycle Brake, and has been for years. But we wanted to know just how we stood with one specific group—college boys and girls. For these alert young people influence the trends and often set the preference for the rest of America.

So we asked independent, undergrad investigators to count bikes and makes of brakes on campuses from Coast to Coast. Their reports show New Departure an overwhelming favorite.

New Departure is the world's lightest and strongest Bicycle Brake. So... follow the college crowd, and demand New Departure on the bicycle you buy or rent.



	New Departure	All Others
Chicago	82	18
Harvard	71	29
Illinois	75	25
Indiana	90	10
Iowa	92	8
Michigan	77	23
Michigan State	94	6
Minnesota	70	30
Penn State	88	12
Pennsylvania	84	16
Purdue	82	18
Texas Christian	77	23
Vassar	85	15
Wisconsin	83	17
Yale	85	15





When it comes to sausage, we've got what it takes.

For one thing, there's our old New England recipe we've followed for 60 years. Then there's our sausage kitchen... right out in the country... clean, bright and airy.

Jones Dairy Farm Sausage is made from the choice, tender cuts of young Wisconsin porkers—including loins, hams and shoulders—the same fine cuts you serve at your table. And it's seasoned with a zestful blending of sage, ground

fresh every day, and natural spices.

Do these things matter? Don't answer till you take your first bite of sausage fresh from the Jones Dairy Farm. Order a pound from your market man today.

FREE RECIPES

Write us for our 1942 series of recipes—new, delicious ways of serving Jones Sausage.



MADE ONLY ON THE JONES DAIRY FARM, FORT ATKINSON, WISC.



"I knocked him out quick... so's I could get to enjoyin' my MENNEN BRUSHLESS SHAVE!"

K.O.'s wiry whiskers! Man, you've never known the joys of smoo-o-o-th-swingin' with your razor 'til you've used Mennen Brushless. It's different—it's a cream, not a grease. No mess, no stickiness. No more hard-water worries! Cleans away the stiffest stubble. Get shave-handsome—get Mennen Brushless!

On your Radio: Capt. Fagg & Sgt. Quire, starring Victor McLaglen & Eileen O'Brien, Sunday Nights NBC-7 30 E.S.T.



THE 3-STEP SHAVE OF GENTLE-MENNEN:—① SHAVE CREAM, ② SKIN BRACER, ③ TALCUM FOR MEN

LIFE'S REPORTS

(continued)

gripping Hitler by the neck and squeezing him to tissue paper. The first of these arms bears a Red Star on the cuff, the second a Union Jack and the third carries 48 stars and 13 stripes on the wrist. Satirical poets paint their verses on walls, journalists and other writers tell what they've seen in that remote—and yet so close—world just outside where the sky every day is filled with the giant umbrella of our fighting planes to protect us as we go about our work, and by night filled with yellow sparks from bursting anti-aircraft shells.

Although the war is most real to us, we do not think about it all the time for we have our daily lives to live. Maybe at the theater we are a little more enthusiastic in applause than we used to be. Maybe we laugh in the cinema more easily than we did in peacetime. Because the enemy has not smashed through our defenses he is now trying to smash us from the air and sometimes, of course, he slips beneath the umbrella that our air force holds above us. But if he knocks down every house, we shall not give in. There are gaping holes in the streets, gaping holes in the rows of houses—and in human families. But the streets are busy still. Shops are open even though they look sad with boarded and sand-bagged windows. Carts from the neighboring collective farms in the battle zone bring them vegetables and meat and grain each day. Street urchins still steal rides on the fenders of trolley cars. And our favorite occupation now, as always, is to lean over the fence on the road above the port and watch ships unload their cargoes which are more precious in this hour than they have ever been.

This morning a car drove past my window. A little girl, her arms filled with a great bunch of autumn flowers, was sitting in front; in the back was a coffin. She was not crying but dazed. She seemed the symbol of all our hopes—youth going on despite death and sorrow. That is what we feel here in this gallant town that has been called "Tobruch." But we are not Tobruch—we are Odessa, "Pearl of the Black Sea," and Odessa we'll remain.

Oct. 20th's new notes in neckwear



GAME BIRDS FOR 1941

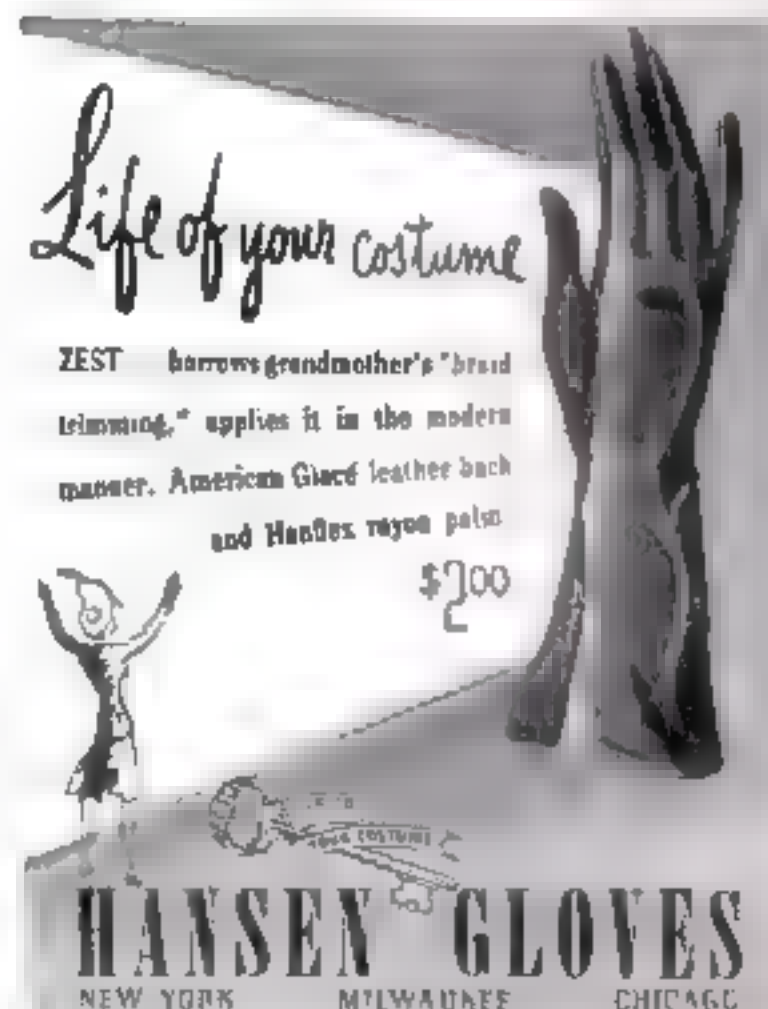
Twenty patterns, inspired by the plumage of America's most famous Game Birds, Ruffed Grouse, Bob White, Mallard Duck, Ring-necked Pheasant, each in six different color combinations, one hundred and twenty different ties, colors from Drake's Wing Blue to Autumn Brown, on famous "Whisperproof" Suede Velour \$1.50. Other Cheney ties, \$1.00 up.

Cheney Brothers... Since 1848, 16 East 34th Street, New York City. Send 10c and two tie bands for a set of four Game Bird pictures in full color... ready to frame.

LOOK FOR THE NAME CHENEY* CRAVATS

STYLES FOR ALL OCCASIONS TIE WELL... WEAR WELL

Reg. U. S. Pat. Off.



*Want to hold out! It's sure to please!
Get Du Pont's new anti-freeze*

ZEREX

DUPONT

NON-EVAPORATING
Anti-freeze
and **ANTI-RUST**



**ONE FILLING LASTS
ALL WINTER!**

\$2.65

★ ★ ★ IN THE INTEREST OF NATIONAL DEFENSE, conserve anti-freeze so there will be enough to go around. Don't buy or use more than you need. Stop leaks. Have your dealer tighten and clean the cooling system of your car, and use "Zerex" or "Zerone" in accordance with directions.

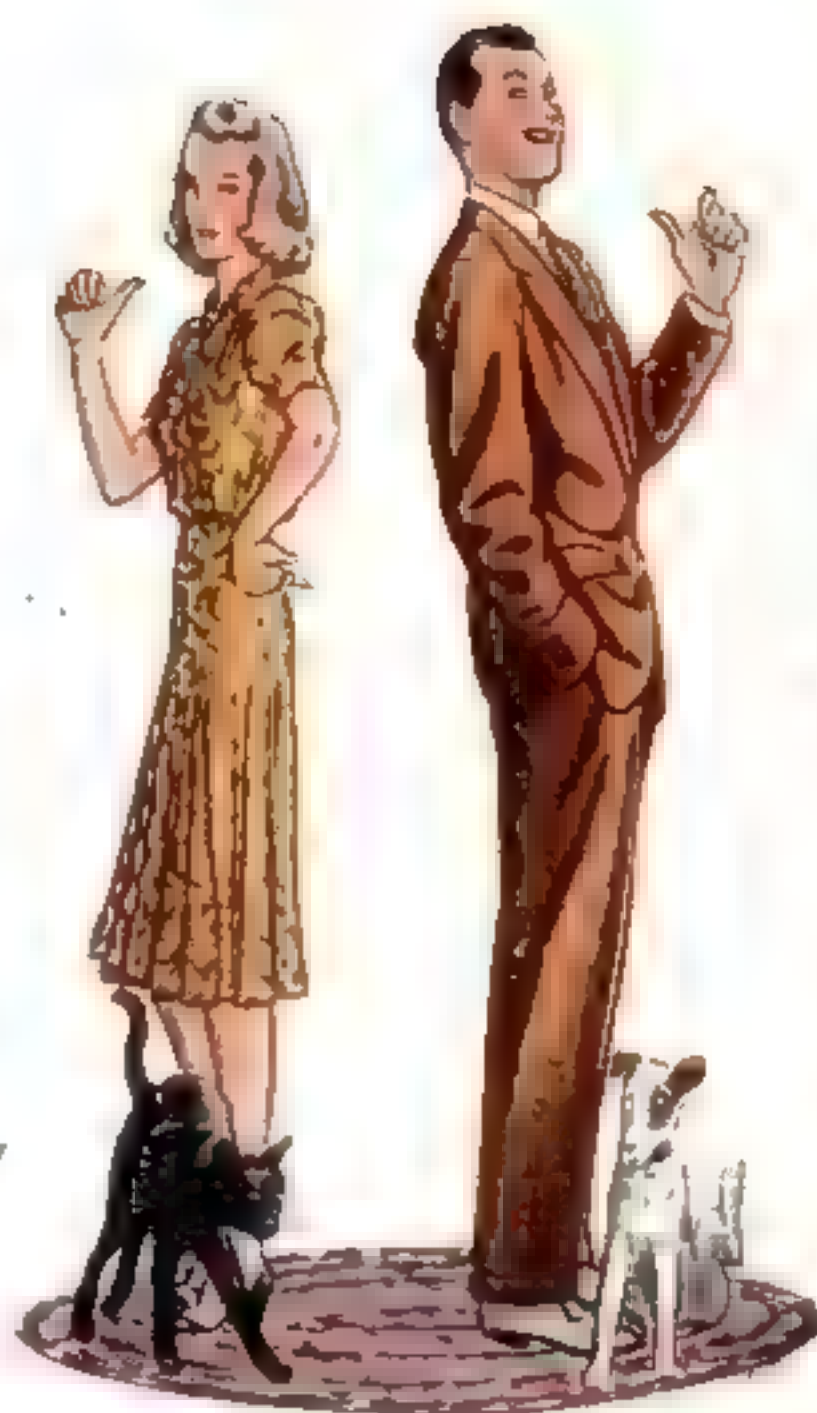


**DU PONT "ZERONE,"
MADE BY THE MAKERS
OF "ZEREX," IS AMERICA'S
MOST POPULAR \$1.00
ANTI-FREEZE**

The Wife's side . . .

"I'M THE ONE
that's going to use this
range—so
it's got to be fast!
I'm too busy to wait around
for the kettle to boil
or the oven to warm up -
Yes!
I want the instant high heat
and the cleanness
of Gas—
the flexibility
of Gas
that gives me any degree
of heat I need.
I want all the wonderful new

time-saving and
work-saving features
I'd get on a modern
Gas range—
signal simmer burners . . .
oven heat control . . .
a 'smokeless' broiler . . .
lots of storage space . . .
automatic lighting . . .
Oh!
and dozens more!
Golly!
bet I'd be a
better cook, too—
if I had a marvelous new
Gas range!"



The Husband's side . . .

"I'M THE ONE
that's going to pay the
bills for
food and fuel—so
the economy
and efficiency
of Gas
make sense to me!
I want a range
that will last for years
and won't
need costly replacements—
that means a Gas range
too!
And I want one that's as
good looking

and
up-to-the-minute
in its way as my new car—
One we'll be proud
to show
our friends
like the beauty
I saw in a store window
just this
morning!
Yes!
guess it would be
smart
to take Mary downtown
and have her pick one out
tomorrow!"



GAS



THE WONDER FUEL FOR COOKING

Show your husband (or wife!) the new Gas ranges at your Gas
Appliance Dealer's or Gas Company. The many exclusive ad-
vantages of modern Gas service have been made possible by the
Gas utilities of America which, through their laboratories and
other agencies, are constantly improving their service to you.

AMERICAN GAS ASSOCIATION



THIS SEAL certifies that
the Gas range you buy
meets all the 22 super-
performance standards
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stands for the "certified perform-
ance" of the range you buy—re-
gardless of the make of the range.
Today 21 of America's leading range
manufacturers offer CP (certified
performance) models. Look for the
CP seal when you buy.

LET GAS DO THE BIG JOBS—COOKING • WATER HEATING • REFRIGERATION • HOUSE HEATING

Is lazy circulation making your

HAIR FALL OUT?

Wake up your scalp with new finger-massage machine

Are you losing your hair because circulation in your scalp is sluggish? Your own doctor will tell you that daily fingertip massage is one of the most sensible things you can do to help.

Now easy with Vitalator—amazing machine that imparts to your own fingertips the correct rotary vibration of Swedish massage. You need no special skill. And Vitalator does the work, as you relax.

Use Vitalator alone, or to apply your hair tonic with professional technique. See it, try it, own it! At cosmetic, drug and appliance counters everywhere.

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SCALP CIRCULATION AT YOUR FINGERTIPS

GILBERT

Vitalator

\$8.95

ALSO IN NATURAL PLASTIC OR CHROME \$9.95

FOR Outdoor MEN ONLY

Wear Bantam...the handsome lightweight, action-free jacket that shelters you from wind, rain, snow and cold.

RANGER (below)—Recessed lined in tan, green or blue twill \$6.50

SIRE (below)—Fine blend of gabardine, bluestone or brownstone \$8.95

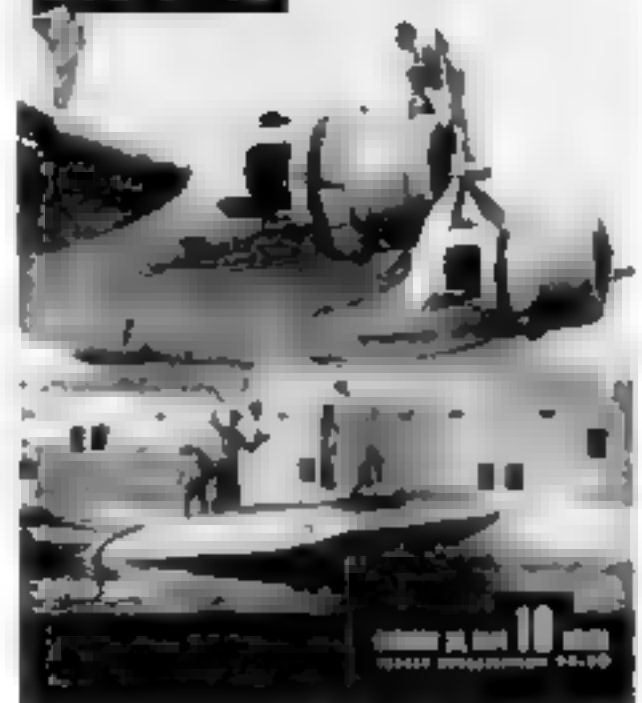
RAMBLER—style like Sire in tan or green twill \$5.95

For FREE sample of fabric illustrated style folder and nearest dealer write BRIAR CLUB Dept. L, 1107 Broadway, New York

Bantam

LIFE'S COVER

LIFE



Photographed a few minutes after its arrival at LaGuardia Field, with a swarm of Pan American mechanics preparing it for its next take-off, the four-motored Clipper on the cover is one of three which, since 1939, have made regular flights to Lisbon and back. Pan American is this week installing a new service to Africa which will be an important item in U. S. defense plans. For more news about this extraordinary airline, see a close-up of its founder and president, Juan Trippe, on page 110.

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MacDuff takes a puff....of Kentucky Club



O. SOGLOW

Says MacDuff, "Tobacco bite is needless rough stuff!" Kentucky Club proves it with each grand pips-puff.

It's the one smoke made only of burley that's white—Makes Mr. Tobacco Bite give up the fight!

It's milder and lighter, its aroma's invitin'—A pal to your palate, a taste you'll delight in.

Get the handsome blue tin that men cheer about—With Kentucky Club in your pipe, trouble is out!

(And no better is known for rollin' your own)

PENN TOBACCO CO., WILKES-BARRE, PA.



I heard her say -
Maytag washes everything!

► CALM YOUR FEARS, AUGUS—you're safe. So, too, is all the family laundry that's washed in the spacious Maytag square tub. Even silks and heirloom linens are safe from strain and wear as they wash and span clean in Maytag's gentle gyraloom water action. They're safe as they lose their suds and water in the self-adjusting damp-drier. And it's a safe bet that you'll exclaim over the speed and the lack of work that's connected with washing the Maytag way. Visit your Maytag dealer - try this new Maytag... and see for yourself!

THE NEW Maytag

COMMANDER



Gun-crew, Civil War Style: Even as early as the Civil War the military value of photographs was fully realized. Matthew Brady's historically important pictures were taken on plates and

with materials supplied by Edward Anthony, founder of Agfa-Ansco. Brady photographed every President from John Quincy Adams to William McKinley, missed only Harrison.



OFFICIAL U. S. NAVY PHOTO

The Navy's silent weapon: the Camera!

**Photography plays many roles in U. S. Navy operations;
Agfa Ansco helps play them well**

MOST VERSATILE of the Navy's weapons is a silent one—the Camera. Naval recruits are tutored—with the help of pictures. Armor, cannon, projectiles are tested—with the help of pictures. Manoeuvres are studied—from airplane photographs. Shipbuilding progress is recorded—on film. X-ray

film is used to examine vital metal parts of ships. Photography is the mainspring of U. S. Navy publicity.

It is fitting that America's first manufacturer of photographic equipment—Agfa Ansco—is furnishing much of the necessary materials. Just 100 years ago, Edward Anthony, founder of Agfa

Ansco, took the first photographs for this—or any—government when he helped settle a U. S.-Canadian boundary dispute.

His company has flourished; its products have become famous for their extra margin of quality. It is this quality that makes Agfa Ansco photographic supplies so frequently the choice not only of the Navy and so many other governmental departments, but also professional and amateur picture-takers.



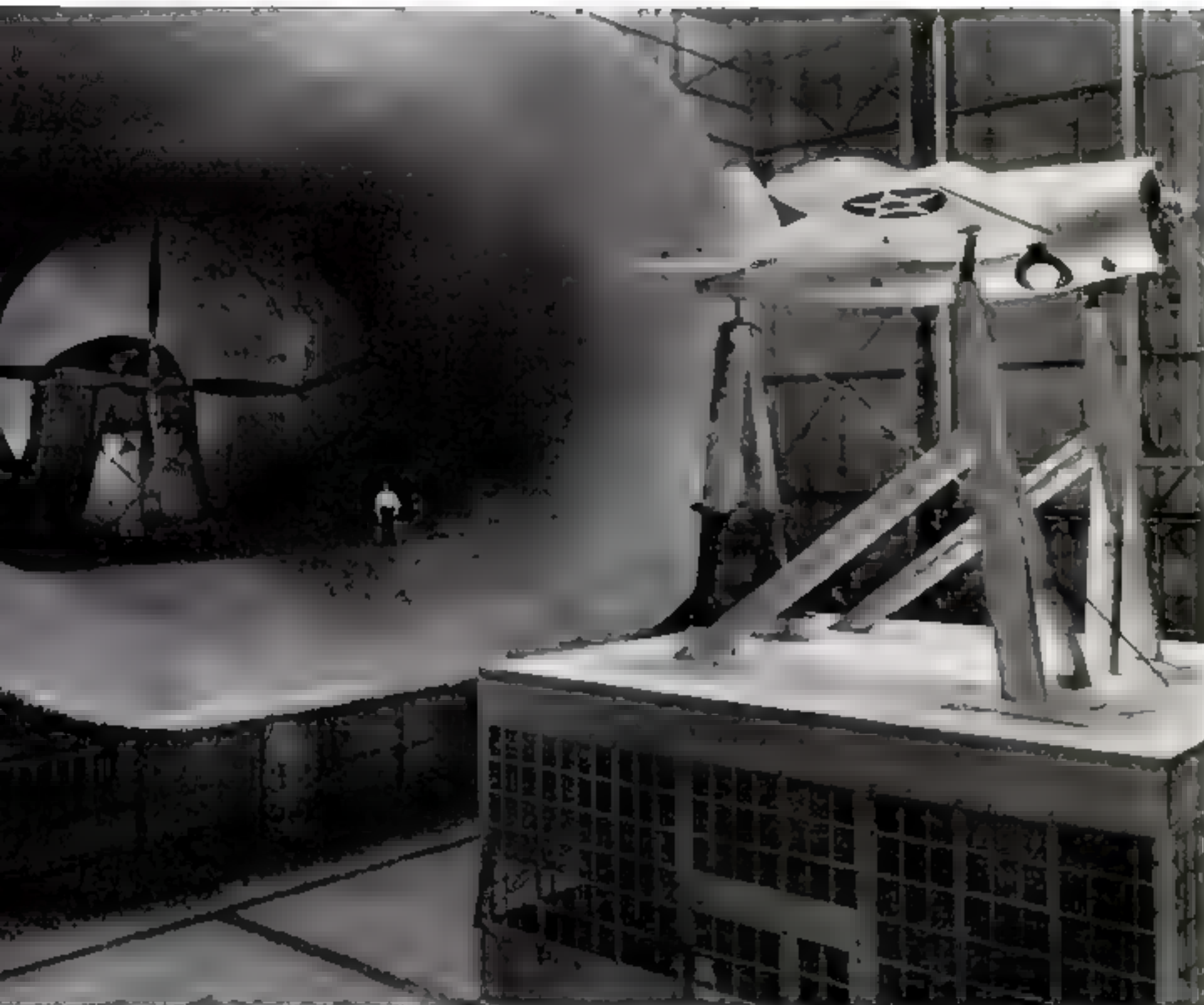
NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS PHOTO

This 2,900-foot tank was invented by National Advisory Committee for Aeronautics, at Langley Field, Va. Movie camera, on carriage above, records behavior of model hull as it swoops along at 80 m.p.h. NACA uses much Agfa Movie Film, high speed sheet film.



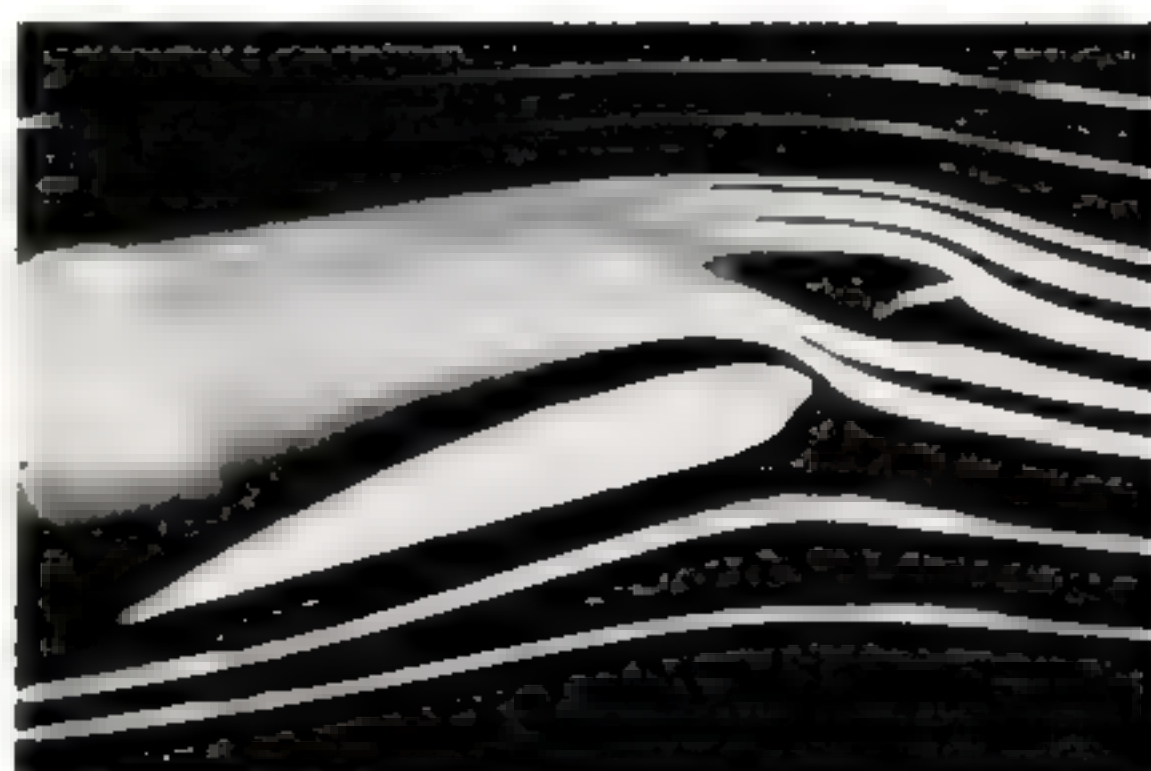
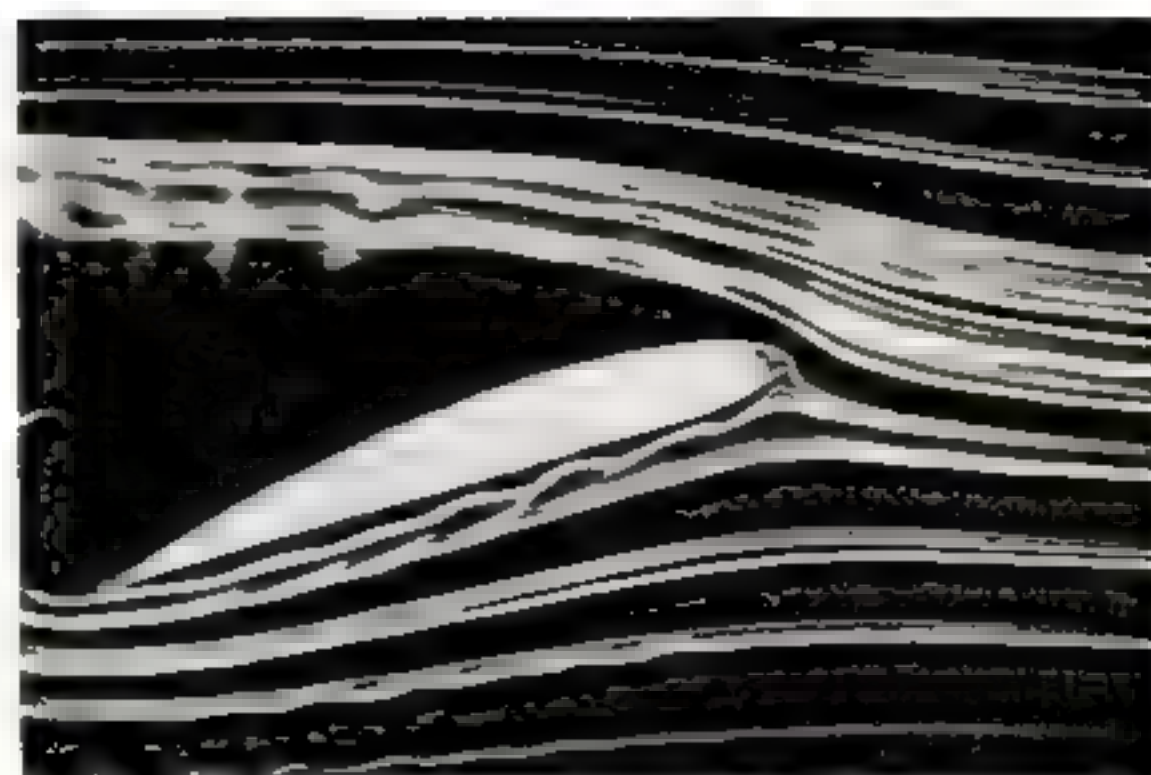
OFFICIAL U. S. NAVY PHOTO

Bird's-eyeing manoeuvres: Of great tactical value are aerial photographs of fleet movements, naval bases, war games. Agfa Aerial Film is a standby for U. S. Navy air shots, taken with cameras like the one above at left. Agfa Ansco Film has long been famous for its extra margin of quality.



NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS PHOTO

Tunnel for airplanes! Navy aircraft are tested in world's largest wind tunnel at Langley Field. High speed film is used to record behavior of planes in air. Much of this film is made by America's oldest film manufacturer, Agfa-Ansco.



NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS PHOTO

Photographing the wind Pictures show how a fin improves flow of air over airplane wing. Smoke is used to make wind patterns. This is typical of photographic research work at Langley Field, Va.

Agfa Ansco

Binghamton • New York

FILMS  PAPERS
CHEMICALS • CAMERAS

MADE IN U. S. A.



So shall ye know them: Navy Department employees wear badges bearing identification photographs, so outsiders are kept outside. These photographs are taken on Agfa 35 mm Superpan Supreme Film—which is also a favorite of candid camera fans.



Do barking guns bite? This mighty salvo from U. S. S. North Carolina is studied by camera. A big job on flag ships is photographing target practice to determine efficiency of guns and missiles. Agfa-Ansco Triangulation Film used in this work comes in rolls 9 1/2 inches wide and as much as 75 feet long!



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LIFE'S PICTURES

Between the layman and his understanding of science stands a barrier not only of ideas but of words. An indefatigable exponent of LIFE's theory that one good science picture equals 25,000 words is Photographer Fritz Goro (left). To LIFE's essay on Science and the Future (pp. 74-84), he contributes the extraordinary color pictures of fish swimming in double-refracting tobacco mosaic virus (p. 79).



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SIGNPOST TO GOOD EATING



San Francisco, Cal.: Surviving fire and earthquake, San Francisco's famed Cliff House has played host to world travelers for more than 82 years. Here one can enjoy the breath-taking beauty of the Golden Gate at sunset . . . the picturesque fishing fleets plying their trade just beyond the breakers . . . the sea lions and aquatic birds

that inhabit the nearby Seal Rocks . . . and at the same time delight in mouth-watering dishes properly set off by Heinz condiments. For at Cliff House . . . as in most famous restaurants and taverns throughout the country . . . Heinz Ketchup, Chili Sauce, savory 57-Beefsteak Sauce and other varieties are always right at hand.



Washington, D. C.: In the heart of Washington's busy government district, this recently opened Toddle House—typical of more than 100 throughout the country—serves hamburger-hungry patrons 24 hours a day. Also typical is the Heinz Ketchup bottle, always handy to make juicy hamburgers even more flavorful.

P. S. Tasty Toddle Mince Pie, the favorite dessert, is made with succulent Mince-meat by Heinz!



FROM coast to coast the route to good eating is clearly marked by the Heinz 57 keystone label. For alert restaurant management—of modest roadside stand or exclusive cafe—knows that good food tastes better when served with rich, ruddy, tangy Heinz Tomato Ketchup—and other Heinz condiments. Clever housewives, too, have learned the wisdom of serving this enticing sauce . . . to glorify even the simplest of dishes. Order Heinz Tomato Ketchup from your grocer today! See for yourself how this grand goodness of sun-ripened tomatoes plus savory spices can add a lift to leftovers. Just look for the Heinz 57 keystone label—always the signpost to good eating!



Princeton, N. J.: Dining at "The Inn" in the excitement of big-game day, or the almost hallowed atmosphere of graduation week-end, undergraduates, alumni and their families enjoy the superbly cooked dishes for which this handsome hostelry is famous. And, of course, Heinz Tomato Ketchup, Chili Sauce and other condiments are always present to add to the fine flavors.



Philadelphia, Pa.: Smart Philadelphians, Main-Line bound, stop to sip and sup at the Suburban Cafe on the concourse of Pennsylvania's Broad Street Suburban Station. For in this beautiful room, decorated with historic scenes of old Philadelphia, the finest of foods are served with the best of all flavor-glorifiers—Ketchup and other condiments by Heinz.



Dallas, Texas: Famous for its food from the sea, Jay's Marine Grill will serve you luscious Maine Lobsters, Colorado Brook Trout, Gulf-of-Mexico Shrimp, Florida Crabs—all with Jay's famous piping-hot rolls that beggar description. And you'll find plenty of those tantalizing Heinz condiments—Ketchup, Chili Sauce and Heinz Worcestershire—for flavor enhancement!



LIGHT BRITISH BOMBS SAIL DOWN ON GERMAN AIRFIELD AND OIL DUMP AT BERCK-SUR-MER ON THE VULNERABLE COAST OF OCCUPIED FRANCE. THIS IS MEDIUM LOW ATTACK

"BOMBER COMMAND" TELLS OF GROWING BRITISH OFFENSIVE IN THE AIR

The fastest selling book ever published in England was *The Battle of Britain*, which in six months sold 4,000,000 copies of the story of Britain's valiant Fighter Command of the Royal Air Force. Last week the inevitable sequel, *Bomber Command*, sold out its first printing of 300,000 copies and was ready to go into 25 languages, including the Russian. In the U. S. it will be brought out on Oct. 22 by Doubleday, Doran for \$1.

On the following pages LIFE shows some of the illustrations that the British Bomber Command took from the air for its own book. They show the experimental efforts of the British to learn how to fight the Nazi way, in an offensive war of destruction. Before the war began the British had concentrated on fighter planes, on defense. Hence their fighters were superlatively able to bat down the German Luftwaffe and singlehanded save England in September 1940. But

Britain did not even begin to plan on offense, on long-range bombing, until 1939.

Bomber Command tells wryly of those pre-war Harrows, Hinds and Wellesleys that were not good enough to see action. In the summer of 1939 the British had just begun to train with Fairey Battles, Bristol Blenheims, Vickers Wellingtons, Armstrong Whitworth Whitleys and Handley Page Hampdens. Inferior though these were they fought them with indomitable courage for 18 months until the great Stirlings, Manchesters, Halifaxes and Flying Fortresses began to come through early this year. Small and inexperienced, ranking well behind the German, Russian and U. S. bombing forces, the British Bomber Command went out to war. Its tale is one of trial and error, incredible audacity and stamina, a stubborn will to get its job done with inferior weapons and methods. Slowly and painfully, in the crucible of action there emerged the Bomber Com-

mand that is today hitting back directly at Nazi Germany.

The Fighter Command saved Britain but the men of the Bomber Command endure far greater trials of danger and torture. They ride the bitter-cold night skies for as long as twelve hours and methodically go into the jaws of death to do their job. Their planes fall apart around them in a hell of shellfire. Single-handed, they fight off swarms of German fighters and limp homeward, often to come down and drown on the empty sea. They tend to become lonely and detached men, friendly toward darkness and death.

Their tale is told in *Bomber Command* by the same House of Commons librarian who wrote *The Battle of Britain*, Hilary St. George Saunders. He has told it matter of factly, without boasting, as the men of the bomber crews would have wished it. For what his heroes saw and did over Europe, turn the page.

INVASION BARGES



"The invasion armada" of 4,000 barges collected by Germans shipped by canal and coast to "invasion ports." Here British find them at Dunkirk as early as July 1940. Big attacks on

The first land objective of the British Doodlebug campaign was the German seaplane base on the North Sea coast of Sylt on the night of March 19, 1940, following a German bombing

1,000,000 deadweight tons of barges collected in nights of Sept. 8-9, 11, and from Sept. 19 to Oct. 3. Note a turned barge in upper right. These wooden craft were powered by gasoline motors

of Sauria Power. Thirty Whitelys and 20 Hurricanes dropped 44,000 lb. of bombs. Visible on the left field are Heinkel 51 patrol bombers (center) and Heinkel 115 seaplanes (right).

MINE SWEEPERS



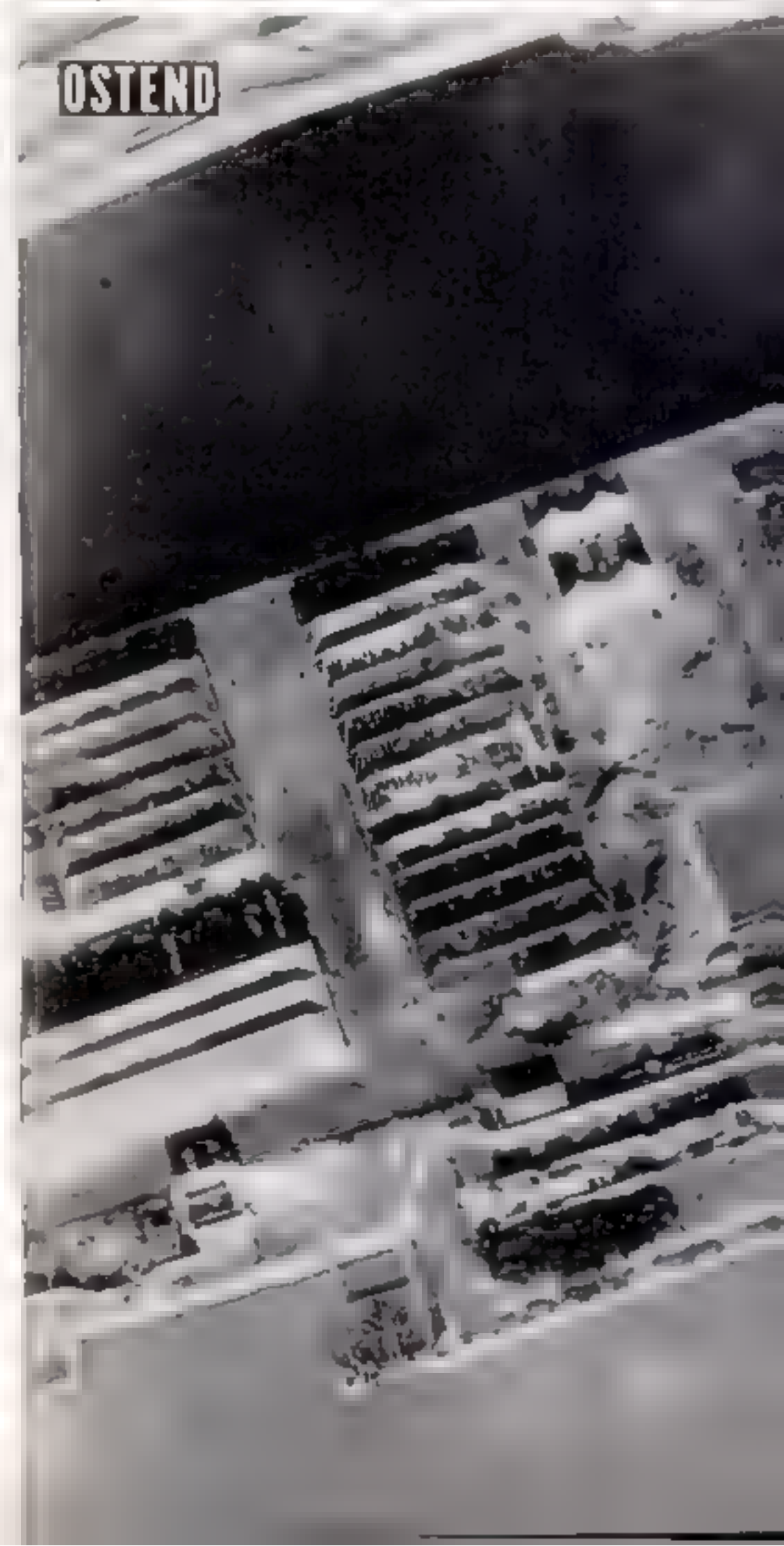
"German Ocean" is another name for North Sea. British by April 1940 had perfected their own magnetic mine and began laying it as prize. German command hoped that U.S. supply and run

Fine invasion base is Ostend, near the headquarters of the British mine force and the supply equipment. To mark bases of troops. Here British Doodlebug campaign found for her the command

SYLT



OSTEND





of the seas from Norway to Spain. Mines must be dropped with pinpoint accuracy at night. Here a fleet of German mine sweepers sets out to sweep them up. Sweeping gear makes wide wakes guts the duck with a sea, probably first posted by German bombers. Because these coast ports are close and easy to find, British call them the "Nursery Slopes" suitable for British legions.



DUNKIRK
Oil stores at Dunkirk are here turned into a burning pyre. This was taken after British evacuation of Dunkirk, when Bomber Command planted a curtain of bombs around the harbor. In **Battle of Flanders**, the British Advance Striking Force of 1,000 tanks based near Rheims concentrated on the supply lines of the German hordes pouring into Belgium.

embarking British troops, 103,000 strong, plus 128,000 French troops. Bombers hit the port and just above the rail road center. Bombers hit the port and just above the rail road center. Bombers hit the port and just above the rail road center. Bombers hit the port and just above the rail road center.



CONTINUED ON NEXT PAGE

Notice the German soldiers legging it for all they are worth (center and right) across the furrows of Flanders. The British

concentrated on this kind of work during the Battle of the West, until appalling losses confined them to night bombing.

A black and white photograph of a large, multi-story building, possibly a school or institutional structure, with a prominent central tower or entrance. The building is surrounded by trees and foliage, and the foreground is somewhat obscured by a dark, textured area, possibly a fence or a large bush. The image is grainy and has a vintage feel.

Star-shell is sent up by German anti-aircraft "flak ship" in the North Sea patrol net outside "The Horacle's Nest" of Hengland Bight. Now begins duel between the first submarine and the guns of the ship.

In 1941 the Bomber Command began to know its business. It had begun to get from the U. S. the high flying, beautifully instrumented Flying Fortresses. It had its own great Stirlings, Halifaxes and Manchesteres. It could hit the bases of the sea-raiding German Condors, the submarine yards and bases. But finally it could begin its great work, the saw hammering of Germany. Perhaps the war could not be won that way, but the Bomber Command was at last ready to try.



Bomber Command headquarters in Britain lies under concrete, grass and, in spring, of chells. Here sits Air Marshal Sir Richard Peirse, picking objectives. Bomber Command is one of eight British air commands.



**SHELLED BRITISH PILOT REPORTS:
"A WEE SPOT OF LIGHT FLAK HERE"**

LIFE ON THE NEWSFRONTS OF THE WORLD

Germany claims a great victory; Panama loses a president; Willie Bioff goes to court

To believe Berlin last week it was the ninth inning for Russia. There were two out and three strikes on Stalin. The Germans, moreover, did not plan to pull a Mickey Owen.

According to the Nazis, "a solid German front" had been established within 125 miles of Moscow. Of Russia's three great army groups, Voroshilov's was bottled up in Leningrad. Budenny's was a fleeing "remnant" in the Ukraine and Timoshenko's was partly encircled, its "destruction proceeding irrevocably." To the Germans the end of the Russian campaign seemed in sight.



VON BOCK

The drive on Moscow had brought on the greatest crisis of the war since Dunkirk. It began secretly on Oct. 2 and was the "gigantic new development" of which Hitler spoke. In his supreme effort to reach Moscow before winter, he threw 2,000,000 men and 5,000 tanks under General Fedor von Bock into a three-pronged drive that bore down on the Bolshevik capital from the west, south and southwest. German troops quickly overran the first Russian positions and with Orel in their hands they cut another railroad linking Russia from north to south. At week's end the German drive had not been stopped, though Russian counterattacks appeared to be slowing it down. Hopefully, Germany's claims sounded similar to those advanced last July when the first German drive on Moscow petered out in the neighborhood of Smolensk.

Even so, the Russians made no attempt to belittle their peril. *Izvestia*, the Government paper, spoke of "life and death." The official Army paper *Red Star* pessimistically warned: "The space of approaching months, if not weeks, will decide the outcome of the war." Then the *Red Star* urged the British to invade the continent to relieve some German pressure from the Soviets.

But the British Government gave no sign that it was planning invasion now. Although the press and people clamored for landings on the German-held shores, the Churchill government contented itself with the mere announcement that "tough guys" in the British Army were being trained in the arts of invasion and guerrilla war. They are called *Commandos*, a Portuguese word, and function as a military unit operating independently.

British and U. S. plans to aid Russia remained in the hopeful rather than active stage. London and Washington vied in hoping 1) that Russia will struggle along until spring; 2) that by then British and U. S. supplies will reach the U. S. S. R. in quantity. Two moves toward this long-distance end were made last week by the House of Representatives. The House passed a \$5,985,000 second Lease-Lend Bill 328-67. It also quashed an amendment to the bill which would have prohibited lease-lend aid to Russia by the crushing vote of 162 to 21.

Anti-Nazi Dogs. "Unless there is an end to the practice of publishing a whole page of pictures of dogs on the main news pages when Hitler meets Mussolini or Horthy, or when the German Army has made sensational advances on the Eastern Front, severe action will be taken." According to Free Dutch sources, this threat was recently made by the Nazis against the newspapers in Holland. It was evidence of the ingenuity with which anti-Nazi Dutch editors are annoying their conquerors.

Panama Coup. One day last week Dr. Arnulfo Arias was President of Panama in the morning and ex-President by afternoon. In the interval he had fled by plane to Cuba.

Dr. Arias, long known for his pro-German tendencies, was deposed by a coup that was as mysterious as it was sudden. Nobody was killed and there were only 60 to 75 arrests. Apparently Arias simply fled in the face of a rising storm of protest over his recent ban against arming U. S.-owned ships of Panamanian registry. The new, pro-American President, Ricardo Adolfo de la Guardia, is expected quickly to repeal the ban.



ARIAS

Viereck Nabbed. The Department of Justice last week put the screws on the man it called the "top-ranking German propagandist." George Sylvester Viereck, Munich-born U. S. citizen, was arrested in New York, accused of concealing from the Government the full extent of his pro-Nazi propaganda work, which he did under a half-dozen aliases with money from German sources.



VIERECK

This is not the first time Viereck's pro-German propaganda has got him into trouble. During the last war, he received \$100,000 a year from Germany for his activities. Friend of the Kaiser and admirer of Hitler, he never ceased defending and applauding Germany, never hid his sympathies—though he may have hidden some of his methods. No minister spy but a witty, scholarly gentleman, Viereck took his arrest with great aplomb.

Bundles for Bioff. Gathered in annual convention at Seattle, the American Federation of Labor finally seemed resigned to getting rid of its black sheep vice president, George Browne, head of the International Alliance of Theatrical Stage Employees. Developments in New York made it more imperative than ever that the reluctant A. F. of L. take this step.

In a Federal court in New York, Nicholas Schenck, head of Loew's Inc., testified during an extortion trial against Browne and Willie Bioff, real boss of the I. A. T. S. E., and a convicted panderer. In 1936, said Mr. Schenck, after he had settled a threatened I. A. T. S. E.

strike by giving Browne \$100,000, Bioff and Browne came to see him. "I want \$2,000,000," said Bioff. Mr. Schenck told Bioff he was crazy.

Bioff, continued Schenck, went away but came back later and said: "Maybe \$2,000,000 is too much. I'll take a million." Schenck told Bioff he still was crazy. But it was finally agreed that the four big film companies should give Bioff and Browne \$50,000 annually, smaller companies to give \$25,000. Mr. Schenck went to Bioff's hotel room and threw a bundle con-



BIOFF

taining \$50,000 in cash on Bioff's bed. While it was being counted, Sidney Kent, head of 20th Century-Fox came in, threw another \$50,000 bundle on the bed.

Currier Case. Last summer the Federal Works Agency asked for bids on 300 houses for a Detroit defense housing program. Lowest bid of \$3,200 a house was made by the Currier Lumber Co. Yet last week, the contract was still withheld although the nearest bid was \$1,400 more a house than Currier's—more than \$400,000 for the whole project.

Responsible for this was Sidney Hillman, OPM labor head. Some time ago Hillman entered into a stabilizing agreement with the all-powerful A. F. of L. building trades unions in an effort to keep down defense construction strikes and expenses. The Currier bid threatened the agreement on two counts: 1) Currier is organized by the C. I. O., which the A. F. of L. hates and 2) Currier uses labor-saving prefabrication methods, which the A. F. of L. hates because labor-saving devices cut down its members' jobs. A. F. of L. leaders in Detroit mentioned "difficulties that would arise" if Currier got the contract. Hillman ordered the Currier bid rejected. In a strange intra-governmental row, Assistant Attorney General Thurman Arnold promptly accused OPM and the A. F. of L. of coercion to grant the Federation a defense construction monopoly.



HILLMAN

Gestapo in Greenland. The Navy told last week how it had thwarted the Gestapo in Greenland. In September, said the Navy, a U. S. patrol vessel stopped a small Norwegian steamer in Greenland waters. Inspection revealed that the steamer had landed three men to set up a radio station which would send weather reports and military information to Germany. Taking the steamer over, the Navy ship went searching for the radio station and found it. It was manned by two Norwegians and a Gestapo agent. "All the radio equipment and supplies," said the Navy, "have been disposed of and the personnel evacuated from Greenland."



New York's brilliant ballet season was presented last week with a brand new surrealist ballet called *Labyrinth*, conceived by Surrealist Salvador Dali and danced by the Ballet Russe de Monte Carlo. The story of *Labyrinth* is the trip of Theseus through the labyrinth and his victory over the Minotaur. Seen how in surrealist symbolism the ballet was also a fight between Classicism and Romanticism, a fight between History and Destiny and, right in the middle of everything, a fight between two roosters. Classicism, History and the rooster, shown on the opposite page, won their fights. The picture, born in the shrewd though fantastic mind of Salvador Dali shows Ariadne (Tamara Toumanova) trying to stop the winning rooster from fighting. It is being danced on a West 47th Street rooftop with the 70-story RCA building as a backdrop. Notice that the rooster's head points one way, its leg the other. This is done to imitate the rooster's leg whose big joint bends backward when it walks. In the ballet, the dancer has to dance backward in order to seem to be going forward.

On a rooftop near Rockefeller Center a ballerina named
Toumanova and a ballet rooster named Beresoff enact a scene
from a new surrealist ballet which had its New York premiere



FIGHT FOR FREEDOM FUN

In New York on the evening of Oct. 5, Fight For Freedom, Inc. staged a show called *Fun To Be Free*. The fame of participating actors, the distinction of guest speakers, the whole mood and spirit of the performance contrasted tellingly with the shoddiness of concurrent America First meetings *see next page*. Around Madison Square Garden's red arena sat 17,000 free and free-loving Americans who applauded OPM's William S. Knudsen, and G. O. P.'s Wen-



HENNY & CANTOR SING A PARODY OF "EASTER HOMMET"



THE GUESTS OF HONOR: AGAN, KNUDSEN, MAYOR LA GUARDIA, CAROLE LANDIS, WILLKIE



SINGER GARMEN MIRANDA



PATRIOTIC PAGEANT BY BEN HECHT AND CHARLES MACARTHUR TRACES CONTRIBUTIONS TO FREEDOM MADE BY NOTABLE AMERICANS FROM PATRICK HENRY TO ROOSEVELT

dell Wilkie, Broadway's Helen Hayes and Harlem's Bill Robinson with equal and enormous enthusiasm.

Fun To Be Free was a great show, and it had a great finale when, from the ceiling of the Garden thousands of miniature cardboard parachutists dropped onto the heads, into the laps, of spectators amid a crescendo of sound-track gunfire and a borealis of arching searchlights. Equally impressive was Mr. Wilkie's exhortation

of Lindbergh. Equally stirring was Mr. Krudsen's prediction that "we finally will so outrank the Nazis that they will not be able to go on any longer."

When the evening was over spectators went home with the profound conviction ably expressed in an editorial in the *New York Herald Tribune*—"that it is fun to be free—so much fun that it is worth fighting to preserve freedom against anything that may threaten it."



WINS RISTOUSS APPLAUSE WITH "THE HOUSE AMERICAN WAY"



BILL ROBINSON TAPS ON ADOLF HITLER'S COFFIN



ETHEL MERMAN AND ENGLISH REFUGEE WIFE SING TRIO



PAGEANT ENDS WITH CLOUDBURST OF MINIATURE PARACHUTISTS FROM GARDEN ROOF. AS THEY DESCENDED, SEARCHLIGHTS FLASHED, GUNFIRE SOUNDED, WOMEN SCREAMED



In Los Angeles Oct. 2, hecklers sporadically interrupted the isolationist polemics of Montana's Senator Burton K. Wheeler at an America First rally in Olympic Auditorium. Here you see

one being ejected by police after he had taken exception to Wheeler's attack on the film industry. Roars Wheeler: "The modern Benetict Arnold is the silver screen." The young man

shown above jumped to his feet to protest and was for a while expelled from the auditorium. The suspected woman in the foreground is his wife, unsuccessfully attempting to intercede.



Flowers for the hero are carried into Gospel Temple. LIFE's Photographer Wallace Kirkland took this picture outside.



Secretary Vera Sessler of the local America First unit, carrying flowers to the rostrum, ordered the expulsion of Kirkland.



Lindbergh salutes. Beside him Fort Wayne's Mayor Baals, Notre Dame's Father O'Brien and Lindbergh's bodyguard.

AMERICA FIRST ROUGHHOUSE

Appearing at an America First rally in Fort Wayne, Ind. Oct. 9, Charles A. Lindbergh suggested that free speech was moribund in America, that the Government no longer reflected the people's will, that President Roosevelt might call off the 1942 congressional elections. At another America First rally in Los Angeles the night before, Montana's Senator Burton K. Wheeler accused the motion-picture industry of treachery and blood lust. In Chicago a few days later America First's chairman, General Robert E. Wood, charged that President Roosevelt, in seeking amendment of the Neutrality Act, had asked Congress "to issue an engraved drowning license to American seamen."

What America Firsters said seemed of small importance last week. Any schoolboy might have told Mr. Lindbergh that there is no possible way for the President to call off an election. The Senate subcommittee investigating Mr. Wheeler's charges against the motion-picture industry was getting nowhere fast. And even isolationist Congressmen were conceding easy passage of the neutrality amendment which General Wood found so horrid.

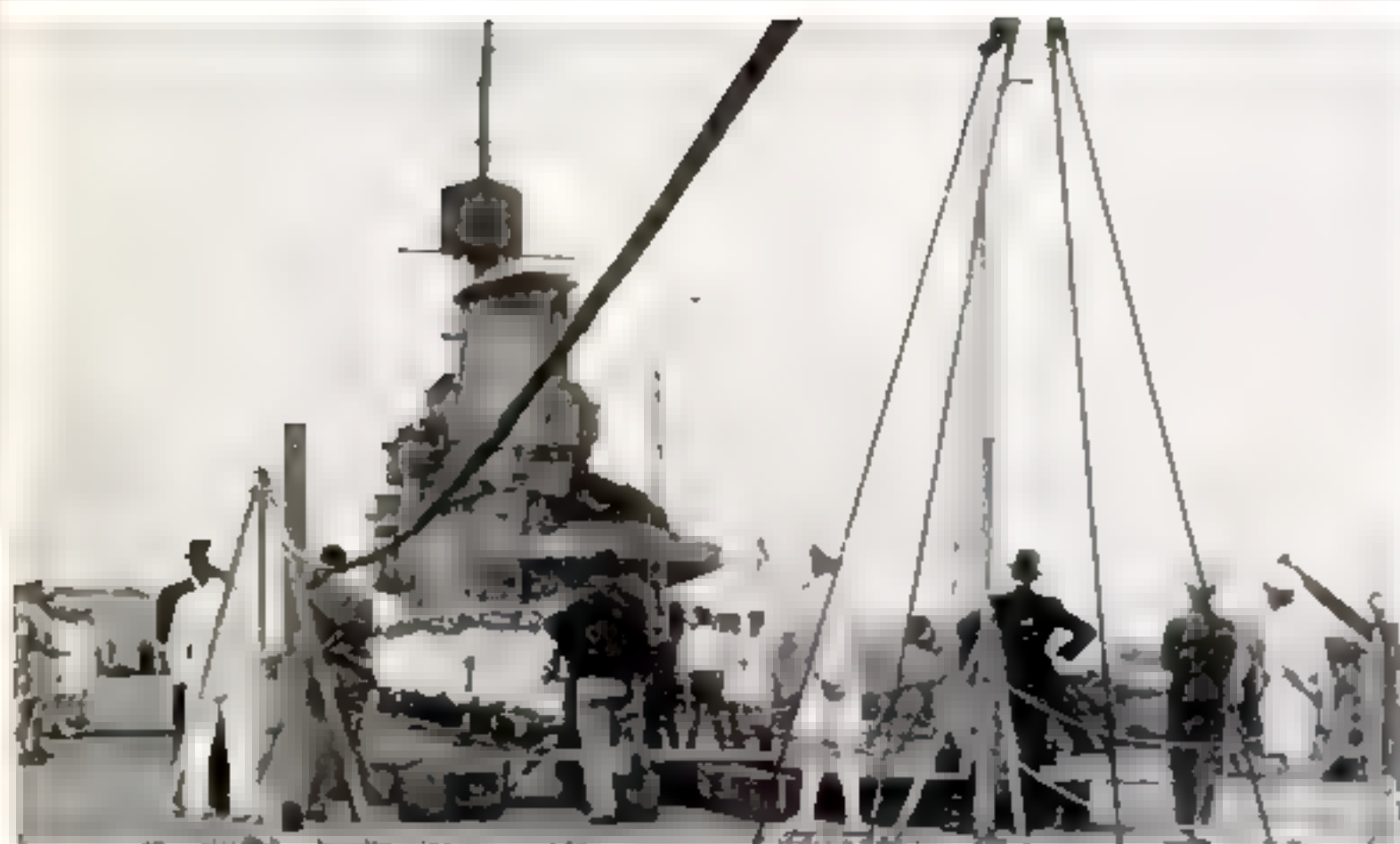
The important thing about America First last week was its membership. The names on its letterhead were respectable enough. But America First has never made public a list of the contributors who keep it always well supplied with funds. And its frequent mass meetings have been characterized lately by unwholesome overtones. Hecklers at these meetings have been badly beaten. Roosevelt and Churchill are invariably booed. The name Hitler never draws a murmur of censure. In Fort Wayne LIFE's Photographer Wallace Kirkland, refused press credentials for reasons best known to the local America First unit, was arbitrarily expelled from the hall where Lindbergh spoke. It was becoming increasingly apparent that despite the lofty rhetoric of its hired orators, America First en masse was emphatically anti-British, furtively anti-Semitic, and possibly pro-Nazi. Its policies have received the endorsement of the Ku Klux Klan, *Social Justice* and Axis propagandists. On Oct. 10, the Rome radio broadcast a paragon to Charles Lindbergh and declared him better qualified than President Roosevelt to speak for the U. S.

In recent weeks the ranks of America First have notably changed. Sincere isolationists and pacifists have dropped away by scores. In many of its most potent chapters Conclunites, proto-fascists and rabid anti-Semites have openly assumed control. Some of its officers who do not profess anti-Semitism nevertheless tolerate it for pragmatic reasons. Perhaps the most significant fact about America First is that it is currently reorganizing its units by Congressional districts in preparation for the elections which its speakers claim will never take place.



"This is not a life I enjoy," declared Lindbergh to his Fort Wayne admirers, shown here rushing him into the hall. Behind him in light hat is Mayor Baals who introduced Lind-

bergh and praised free speech. In front are Bodyguard Horace Smith left of Fort Wayne Police Force and Clay Pugh of Chicago who manages Lindbergh's appearances for America First.



H. M. S. "Formidable" is one of England's newest carriers. This ship was severely bombed in the Mediterranean, now lies in the Portsmouth, Va. Navy Yard near her sister ship, the *Illustration*.



Cruiser "Liverpool" 9,400-ton ship at Mare Island, is one of the Southampton class. She carries twelve 6-in. guns, torpedo tubes, three airplanes. She is the most badly damaged of British ships.



Destroyer "Burnham" is one of the 76 ships traded to England for Atlantic bases. She was formerly the U. S. S. *Alden*, is now at Boston Navy Yard for overhaul after North Atlantic duty.



H. M. S. "Firedrake" is also in Boston for overhauling. Destroyers such as these take a terrific pounding at sea, have to be checked frequently. Note the camouflage, still widely used in this war.

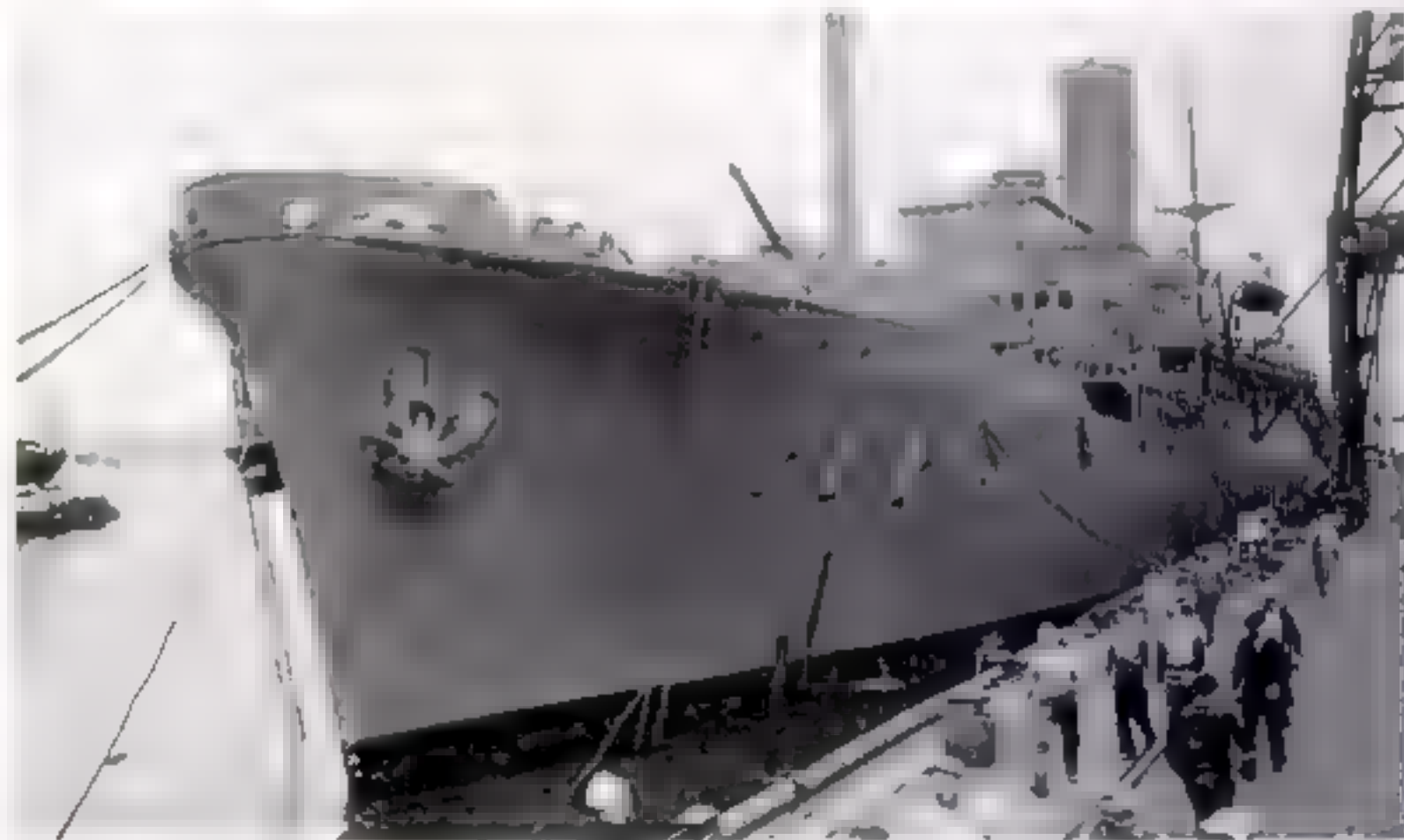
U. S. NAVY YARDS REPAIR

Here, on these pages, is the most tangible evidence Americans have yet seen of their avowed purpose to help England win this war. These are vessels of the British Royal Navy now in American ports for repair after engagements with the enemy, or for overhaul after rigorous weeks at sea in pursuit of raiders and submarines. They have sought shelter down the range of both coastlines, from Portsmouth, N. H. to Charleston, S. C. in the East, from Bremerton, Wash. to Mare Island, Calif. in the West. How many more there are, and in what harbors they lie, is a secret supposedly known only to the Admiralty and the U. S. Navy.

Keeping secret the presence of a 35,000-ton battleship in a busy port is a strain on any censorship. For months the aircraft carrier H. M. S. *Illustration* (HPL), Sept. 15 lay in full view of the islands of people crossing on the ferry from Norfolk to Portsmouth, Va. The warship *Malaga* rode at anchor in the upper harbor of New York, where millions of persons could not help but notice her. Yet until this time, reference to any British ships in the American press was strictly forbidden.



Cruiser "Orion," now at Mare Island, lured the Italian Fleet toward her over British ships at the Battle of Cape Matapan. LIFE (June 16) printed her captain's eyewitness account of U. S. victory.



Auxiliary cruiser "Menestheus" is one of Great Britain's converted merchant ships, now working with the Royal Navy to hold the seas for England. She is at Baltimore for maintenance repairs.



Cruiser H. M. S. "Manchester" is of the same class as the *Liverpool* and *Newcastle*, was damaged on patrol somewhere in the North Atlantic. This picture was taken at Philadelphia Navy Yard.

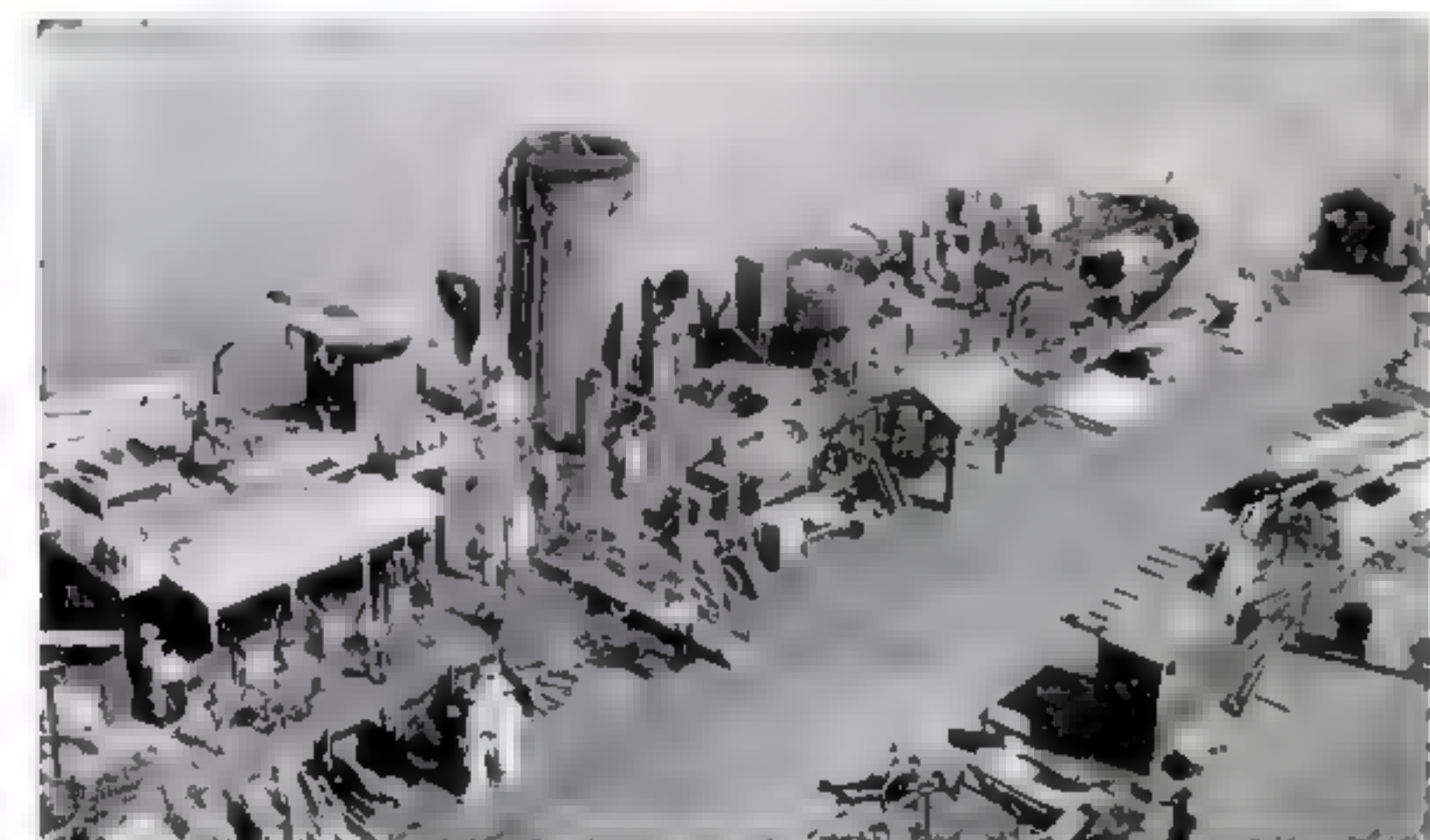
BOMBED BRITISH WARSHIPS

In an enlightened step, the Navy recently lifted this ban, restricting only information as to ship damage and movements that might be valuable information to the German and Italian navies. And, for the first time, Americans may catch some hint of the bitter, relentless sea battle being waged by the British.

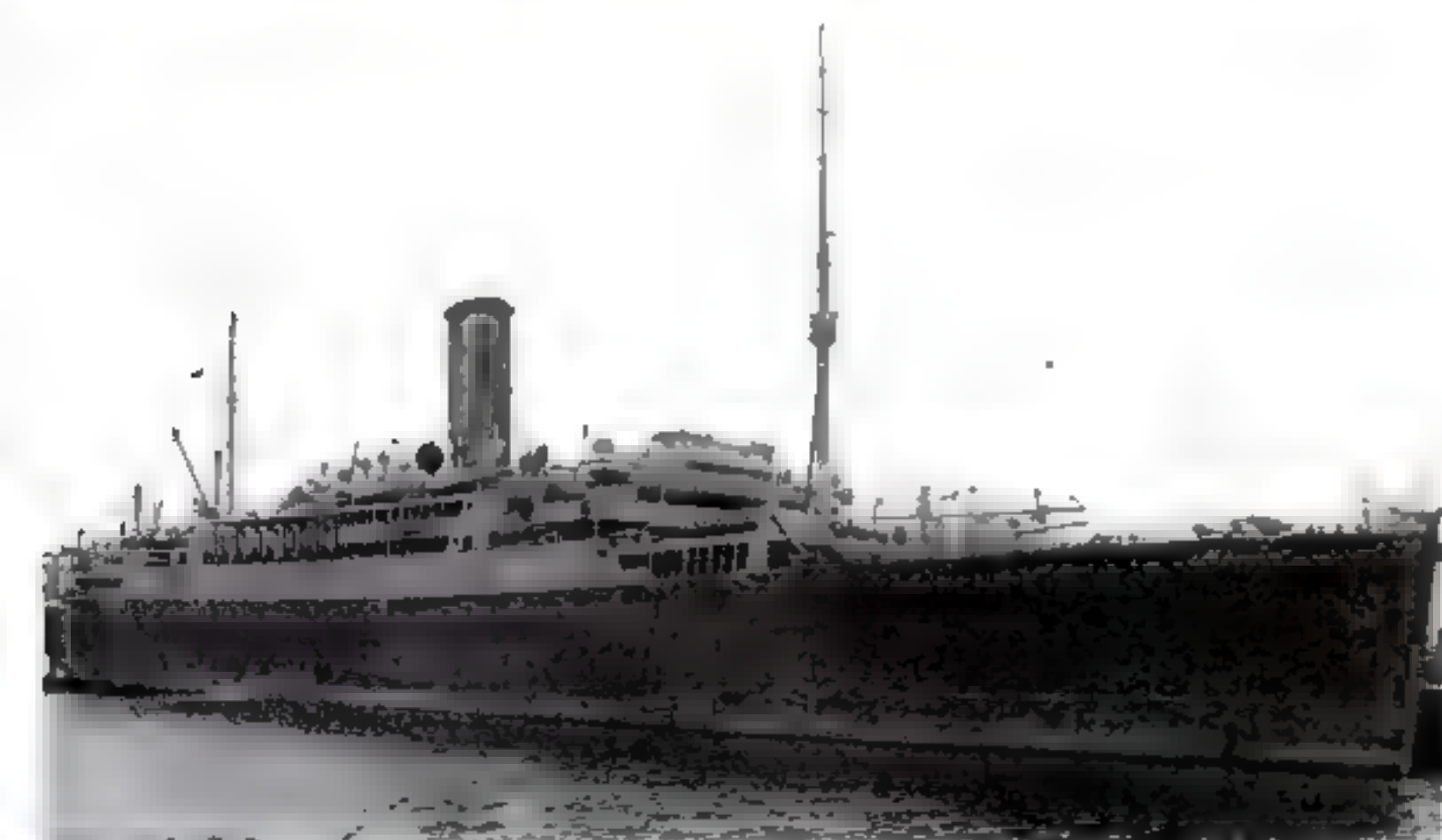
These ships are worthy of the days of Drake and Nelson. They have fought gallantly in icy waters of the North Sea, in the Mediterranean, in the Indian and Pacific oceans. The *Warspite*, now at Bremerton, was Admiral Cunningham's flagship in the Mediterranean. Previously she had fought off Narvik and in other North Sea engagements. In the south she was in the battles of Calabria and Cape Matapan, flattened Italian forts at Capuzzo, Tripoli, Bardia. In the Crete withdrawal, she was damaged by aerial bombs, came here for repairs. One thing noticed in ports where these ships are berthed is that, though the American and British navies co-operate mightily at sea, the waterfront bars are traditionally loud with fights when the "Yanks" and "Limeys" meet to defend the honor of their respective fleets.



The "Pandora," a British submarine, is at the Portsmouth, N. H. yard for engine overhaul. Lying near her at the yard is the Free French submarine, *Surcouf*, largest underwater vessel in the world.



Corvette "Nasturtium" lies at Charleston, S. C. This ship has probably suffered no great damage, else she would not have been able to make this port, would not be valuable enough to justify repair.



The "California" is another converted merchant ship which once sailed for the Anchor Line between New York and Glasgow. She is now at Boston, may have been bombed in the North Atlantic.



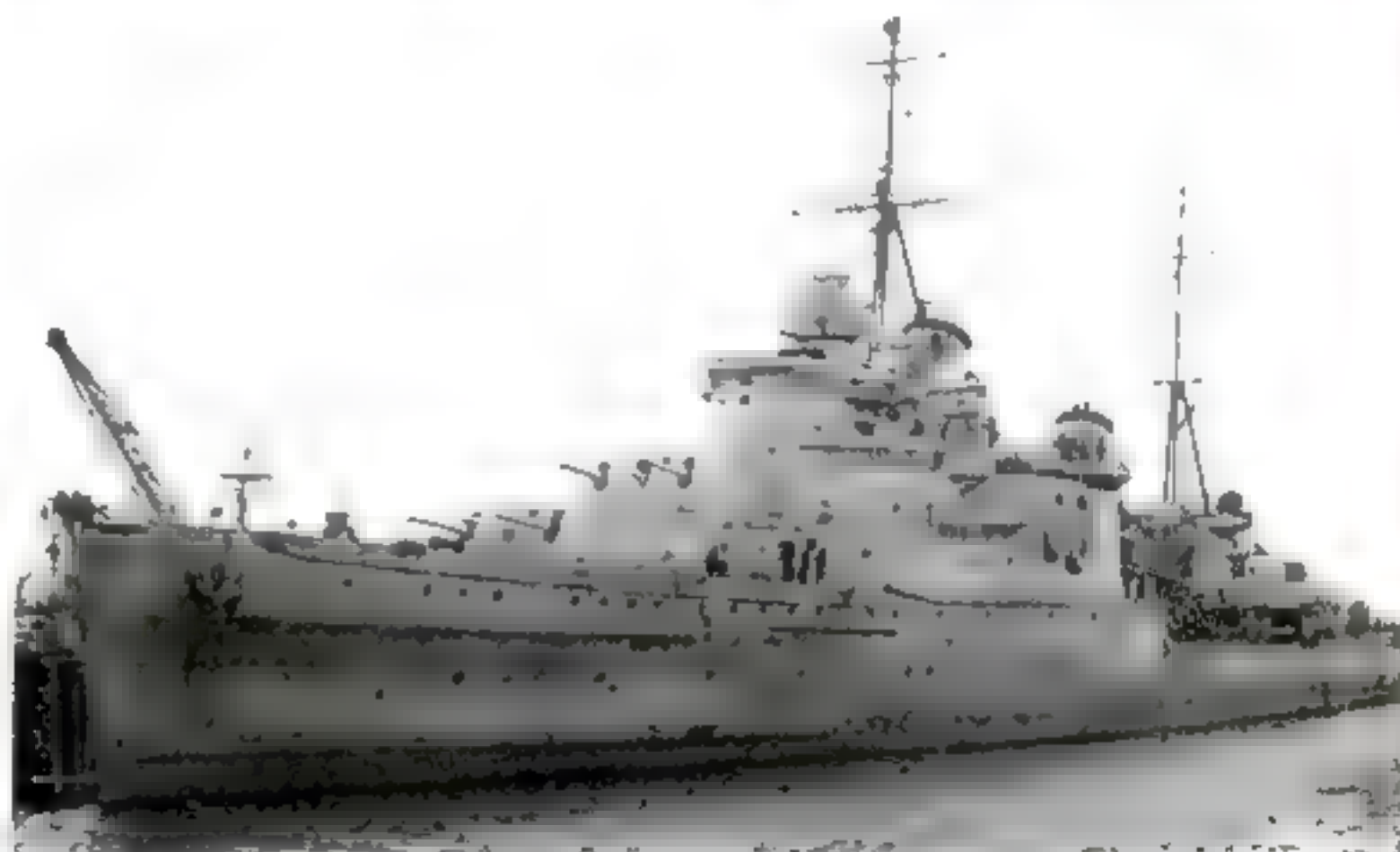
Battleship "Warspite," at Bremerton, Wash., has probably seen more service than any other ship in the British Navy since World War II's start. Crippling blow was delivered by planes at Crete.



New cruiser "Dido," also hit at Crete, is at Brooklyn. Her captain tells of surprising a German convoy of small boats trying to land on Crete at night. Many were sunk, 2,500 soldiers drowned.



Corvette "Primrose" is at Charleston with the *Nasturtium*. Ships like this take the place of destroyers in guarding slow-moving convoys, have performed good service in narrow Channel waters.



Cruiser "Newcastle" is being repaired at Boston. She is only ship on this page that has recently seen South Atlantic patrol duty. In past two years she has been active 25 out of every 30 days.



GERMANS DRIVE CAPTURED RUSSIAN TRUCKS (TOP) UP TO FRONT WITH RUSSIAN OIL DRUMS. KRUPP DIESEL TRUCKS (BOTTOM) DRIVE BACK ACROSS SHORT CUT EMPTY

THE WAR MOVES ON IN RUSSIA

Behind the great Nazi drive for Moscow last week lay hard-sweating months of rebuilding Russian railways to German gauges, repairing Russian roads, rebuilding storehouses. Disorganized by Russian resistance, supply problems had repeatedly stalled the Germans. Notice above that a Russian shell from the air has struck over a truck, another shell had landed over. But the German supply lines already scurry up and back.

The actual architects of the German advance are the men below, whose weapons show the telltale look that comes from action. Because they are crack soldiers, their officers let them wear their trousers outside their coats for coolness, let them sling their rifles as they please. These are clever, tough, experienced troops. But they

were up against an adversary in Russia nearly as tough and clever as themselves. The Russians were using the artillery the French neglected. They were remaining apparently unterrified when "surrounded." They were fighting with elasticity, giving and taking. Their planes were working directly with the army, hitting the German striking forces where it hurt worst, not bombing useless objectives far in the German rear. Two Russian squadrons claimed to have got 100 tanks and 300 trucks of the small German tank units (30 to 60 tanks, prowling up and down the front).

Shape of German advance was a huge squat salient fork of three prongs, all pointing in toward Moscow on three railway lines. The farthest was 105 miles from Moscow.

TOUGH GERMAN VETERANS BEHIND SQUAD LEADER COME ALONG BOMBED RAILWAY



UNEXPLODED 8-IN. SHELLS (WITHOUT FUSES) MARK A BOMBED MUNITION TRAIN





Refreshment arrives



There's a stop that belongs on your daily time-table...a stop for ice-cold Coca-Cola. Whatever your schedule may be, ice-cold Coca-Cola adds the flavor of refreshment to a welcome pause...You'll enjoy it.

5¢

THE PAUSE THAT REFRESHES



Each time you taste ice-cold Coca-Cola, you are reminded that here is the quality of genuine goodness. Experience...many a refreshing experience...has taught people everywhere to trust the quality of Coca-Cola.

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"Get down off'n there!"

GUIDE: And next, gentlemen, we comes to Apollo, the symbol o'— Hey! What th— Get down off'n there!

CAMEL: Pardon, master, but I, too, am a symbol.

GUIDE: You! Of what?

CAMEL: Of a quality much desired in whiskey, sahib. The quality of *Dryness*.

GUIDE: Well dawggonit, *Dryness*, get down off'n there! We got rules in this museyum, an' they— Say! What's *Dryness* got to do with whiskey, anyhow?

CAMEL: Much, master. It is, in fact, so important that whiskey experts *demand* it. And with good reason. For *Dryness* . . . or a lack of sweetness . . . brings out the true flavor of a whiskey, effendi. It allows its full, rich flavor to *come through* . . . clear and unimpaired.

GUIDE: Sure, camel . . . clear an' unimpaired . . . an' so durned expensive a curator couldn't afford it! Get down off'n there!

CAMEL: Effendi, there is a jewel among fine whiskies . . . a whiskey whose fine *Dryness* allows its magnificent flavor to *come through*.

I speak of PAUL JONES whiskey, effendi. So magnificent and rare its flavor and so modest its price that wise men know PAUL JONES as a *great buy*. So great a buy, effendi, that its popularity jumped five times in less than two years! It is on PAUL JONES that I rest my claim to this pedestal, master.

GUIDE: Well . . . now if it was me runnin' this museyum, camel, I'd be glad to let you—Well, I—Well, dawggonit, they's no rule says a camel *can't* stand on a pedestal around here! Dawggonit, camel, you stay there!

*The very best buy
is the whiskey that's dry*

Paul Jones



A blend of straight whiskies—80 proof. The straight whiskies in Paul Jones are 4 years or more old. Frankfort Distilleries, Inc., Louisville & Baltimore.



Chief Justice Harlan F. Stone led the most impressive national ceremony of the year. On July 4, after President Roosevelt had spoken to the nation and invoked Americans to pledge "our work, our will . . . our very lives," the Chief Justice stood before a microphone hitched to a nationwide hookup and recited the Pledge of Allegiance. All across the land, millions of American citizens, who realized sharply how much the Pledge meant, repeated the words after him.



Associate Justice William O. Douglas warned the country that it must unite: "Hitler's *Mein Kampf* condemns democratic institutions to destruction . . . When the Nazi youth sings *Today we are masters of Europe, tomorrow of all the world*, they do not add *except America*. To think that we Americans have acquired immunity is to assume that a highwayman is not interested in the richest and most prosperous person in the world."

THE U. S. SUPREME COURT DELIVERS UNANIMOUS VERDICT FOR ROOSEVELT'S FOREIGN POLICY AND AGAINST HITLER



THE COURT FLAG FLIES AT HALF MAST TO MOURN FORMER JUSTICE BRANDEIS

On Monday, Oct. 6, the nine Justices of the U. S. Supreme Court came together for the 1941-42 term. Since last June, when it recessed, a great deal had happened to the Court. A new Chief Justice, Harlan Fiske Stone, had been appointed to succeed Charles Evans Hughes who had retired. Two new associate justices—Senator James F. Byrnes of South Carolina and Attorney General Robert H. Jackson—had been sworn in. And between the Court's closing and its convening, the justices had taken a step unprecedented in the modern history of that great body. Individually but unanimously, with only two members abstaining, the Supreme Court had delivered a resounding public verdict in favor of Franklin Roosevelt's actions and against the aims of Adolf Hitler.

Usually the nonjuridical utterances of the Court are diluted by generality. But this summer the honorable justices took off their black robes and got right down into the fight to support Roosevelt against Hitler. Six members condemned Hitler or Nazism by name. A seventh participated in a ceremony whose anti-Nazi significance was plain. One justice spoke only in general terms and only one was silent. In their abstentions, there was no hint of dissent.

The sayings of some justices are printed here under pictures of them taken on opening day of the Court. One of the most vigorous statements was made by Associate Justice Hugo Black who said: "We cannot wait until the Americas stand alone against the rest of the world molded into one vast, unified instrument of warfare by Axis tyranny. . . . We cannot with safety permit ourselves to view every swift move of our selected officials with suspicion that breeds resentment, inefficiency and disunion." Associate Justice Stanley Reed spoke out: "Force must be met by force, the force of Nazism by the force of Democracy. . . . Our officials hold a plain mandate for help to our friends and defense from our enemies. . . . We must rely on the President. . . ." Associate Justice Felix Frankfurter avoided specific references but remarked that it was an evasion of thought to believe that "war never settles anything. This war will settle the quality of your lives and your children's lives."

The new Supreme Court is the youngest in many years. Last spring the average age of its members was 61 years. Today their average age is only 56. The oldest justice is Chief Justice Stone, who is 69. Youngest justice is William Douglas, who is 48.



FATHER TELECHRON SAYS:

**"DON'T ROAST THE COOK—
IF THE ROAST ISN'T RIGHT!"**

Just put **STEWARDESS** on her kitchen wall! Accurate, attractive. Choice of colors—chrome with ivory, green, black, white, all chrome. **\$4.95**



KNICKERBOCKER—Colonial brown wood case, \$5.95. Telechron clocks all through the house provide a complete time system.



IMP—An appealing bell-type alarm in choice of three mottled colors—rose, brown or ivory plastic. Priced at only \$3.95.



REPORTER—A handsome alarm at a new low price! Choice of two cases. In brown plastic, \$2.95. In ivory-color plastic, \$3.50.



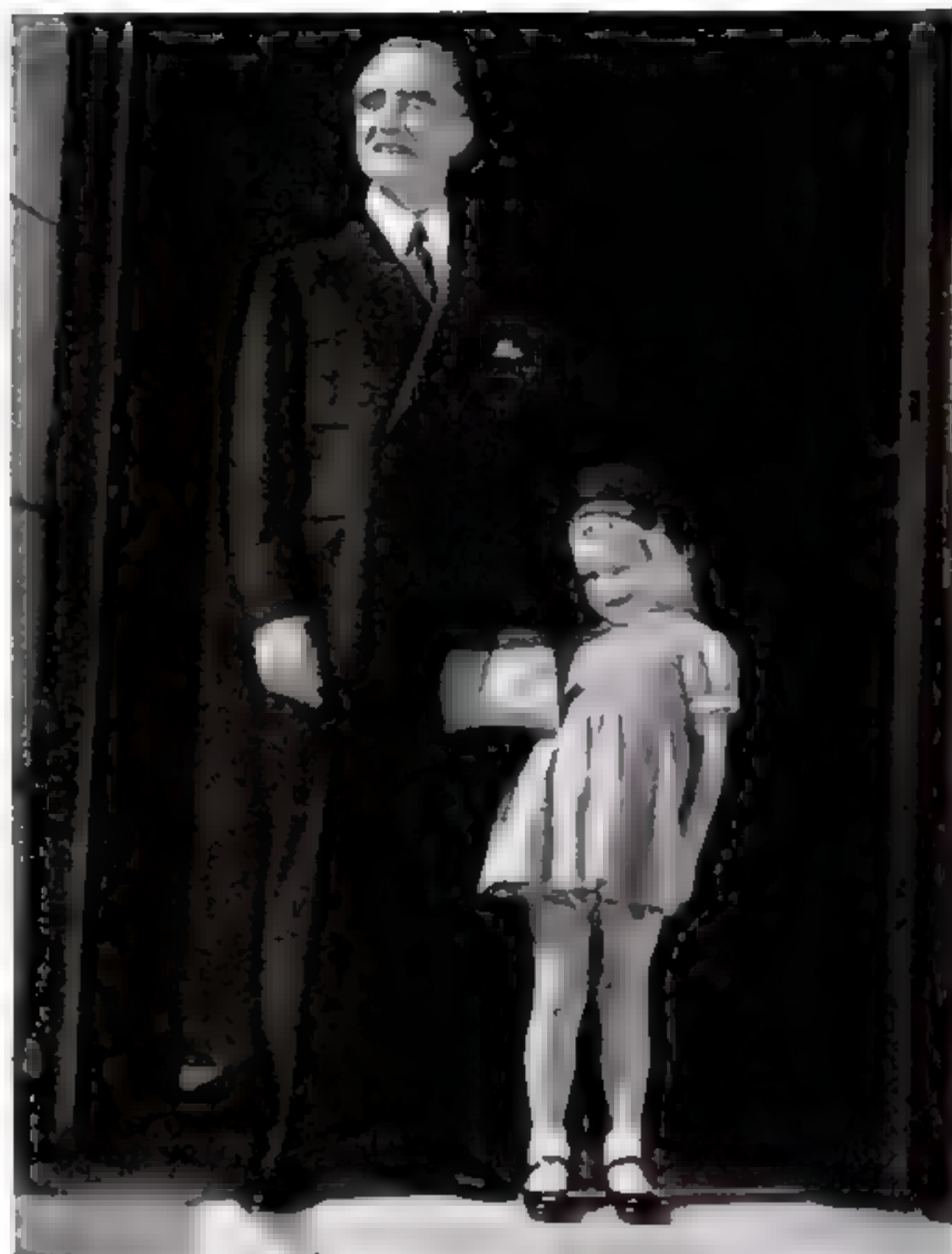
CONDUCTOR—Mottled brown plastic, \$3.95. Ivory-color plastic, \$4.50. Other models at all leading dealers, \$2.95 to \$35.

Telechron ELECTRIC CLOCKS

ALL with the famous self-starting Telechron motor, sealed in oil for silence and long life. Warren Telechron Co., Ashland, Mass.
In Canada: The Canadian General Electric Co.

Prices subject to change without notice

Supreme Court (continued)



Associate Justice Frank Murphy, who was accompanied to court by his niece, defended the Roosevelt policy of aid to Russia. A Catholic, he told the Knights of Columbus: "No one should be deceived by Germany's sham crusade in behalf of Christianity. . . . There is little to choose between Communism . . . and Nazism. But we know that Nazism with its superior competence . . . energy . . . military power is by far the greater menace to free nations." Associate Justice James F. Byrnes (below) said nothing. But his Senate record left no doubt that he concurred with his colleagues.



CONTINUED ON PAGE 50

WE WORK BEHIND THE STOCKING SEAMS

... and we can tell you, quickly, that while there's an America (where wonderful things *can* happen), and while there's a manufacturer like Kayser, *pretty American legs will still look glamorous and well groomed!*

For Kayser, famous for silk stockings, will *always* be famous for stockings—thanks to craftsmanship and imagination and ingenuity. For a good year now, Kayser's been experimenting with substitute threads, and every day brings the dream stockings nearer. Of course, they won't be of silk. But they will be exciting to see... and luxurious to feel and satisfying to wear. And they will retain Kayser's wonderful fit-features, like "Nimble-Nee" and "Fit All-Top."



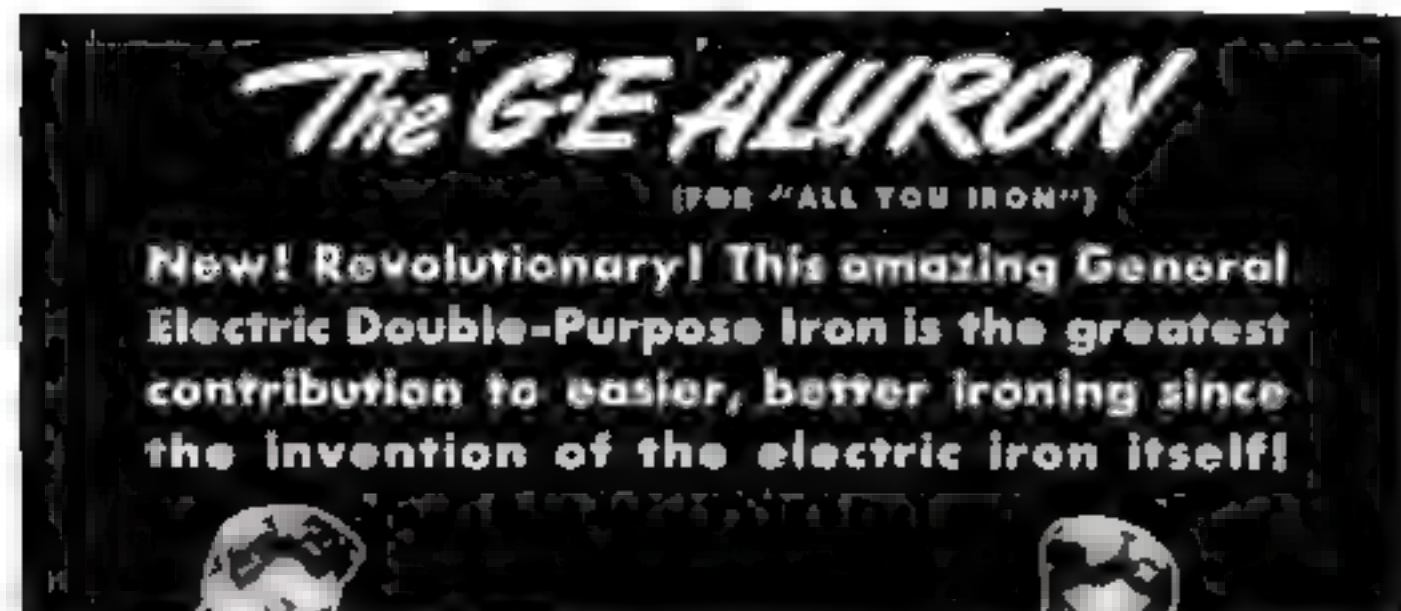
Till that momentous day (and we happen to know it's coming soon!)—what? Kayser will continue its policy, originated at the first hour of the silk crisis—always to play fair. To sell at reasonable prices. To give every dealer, even in little towns, his equal share of Kayser's available silk stockings. While the quantities last, of course. And after that... believe us, *you can count on Kayser for your stocking future!*

P.S. ... Meanwhile, when you think of *Nylon*, think of Kayser. As fast as Kayser can get the Nylon yarns, just so fast will Kayser's wonderful Nylon stockings be made and delivered—always fairly—to your favorite shop.



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Now! TWO IRONS IN ONE!



1. STEAM IRONS
every kind of fabric from velvet to organdy. You can dial the steam for rayon, silk, woollens etc. No pressing cloth needed.

2. DRY IRONS
cottons and linens. You can switch to "regular ironing" in one second! Gives you all the speed and light-gliding ease of America's Favorite Iron.



HERE'S a Double-Purpose Iron that does all your ordinary ironing, and irons all those things you never dared touch with an iron before!

For steam ironing, the G-E Aluron gives you for the first time, *controlled steam*. Ready in 2 minutes! You can "dial" the steam as well as the fabric!

For dry ironing, this light,

streamlined beauty brings you the famous G-E "Dial-the-Fabric" and all the other improvements that make the G-E America's Favorite Iron.

So if you want to save time, work—plus money on pressing and cleaning bills—see the G-E Aluron today at your dealer's. *Two irons in one.* Only \$16.95, taxes included!

All Prices and Specifications Subject to Change Without Notice. See Your Dealer.

GENERAL  ELECTRIC

Supreme Court (continued)



Associate Justice Robert H. Jackson (*at the wheel*), who drove himself to court, declared that if Germany won, "our alternative to complete preparedness would be to live meanly as well as precariously—like a bug in a bottle." Speaking later, he said that post-war America would have to "support an international order based on law . . . or . . . outstrip the rest of the world in naval, air and perhaps military force."



Associate Justice Owen J. Roberts, a Republican appointee, said: "To a man we subscribe to . . . the great declaration of the aims of democracy . . . made by our President and the Prime Minister of Great Britain. . . . None of us doubts that if Germany conquers Britain, our turn will come next. Either by sword or economic encirclement, it is proposed to take away our precious liberties . . . to make us slaves."



A very great ex-Justice, Louis Dembitz Brandeis, one of the bravest of all fighters for American liberties, died the evening before court opened. His body was carried quietly from his house and interred with no public ceremony. But the Supreme Court listened to Chief Justice Stone eulogize the "rare sagacity and wisdom and prophetic vision" of Louis Brandeis, then gravely adjourned as a sign of homage and respect.

Here's your recipe for AUTUMN LEAF CAKE

1 c. sifted Pillsbury's SNO SHEEN Cake Flour.
1 1/2 c. sugar, sifted 1 1/2 c. egg whites, 1 tsp. salt,
1 1/2 lbs. cream of tartar, 1 tsp. almond extract, 1
tsp. vanilla, 1 c. blanched, finely chopped al-
monds, toasted.

1. Sift Pillsbury's SNO SHEEN Cake Flour
once, measure (SNO SHEEN is made from the
tenderest-gluten wheat and sifted through the
finest silk. There's cake-baking success in every
ounce of SUPER SOFT SNO SHEEN!) Add
half the sugar. Sift together twice. 2. Beat egg
whites and salt together till foamy; sprinkle
cream of tartar over surface; beat till stiff but
not dry. 3. Sprinkle rest of sugar (2 Tbsps.
at a time) over whites; fold in gently.
Continue till all sugar is added.
Fold in flavoring. 4. Sift and
fold in SNO SHEEN Cake
Flour and sugar mixture
gradually. Fold in al-
monds carefully. Turn

batter into 10-in. ungreased angel cake pan
...note how light and fluffy this SNO SHEEN
batter is. 5. Bake the cake for 30 minutes
in a slow oven (275° F.) Then increase heat
to 325° F. and bake till done (about 30 to 35
min.) 6. When done, invert pan until cake
is cold. Then remove from tin. And be pre-
pared for something that nobody but a SNO
SHEEN user ever sees—an extra lightness and
delicacy, an exquisite softness and fineness of
texture, that has given a lot of women a new
idea of how good a cake flour can be. 7. From
this taste-tempter with chocolate icing, gar-
nish with maraschino cherries and autumn
colored candy leaves. And—don't expect to
find yourself too much out of pocket. For
SNO SHEEN is very reasonable in price, be-
cause Pillsbury makes it in mills located where
these rare, tender-gluten wheats are grown.
For a new cake thrill, ask your grocer for
"SUPER-SOFT" SNO SHEEN!

Pillsbury's

SNO SHEEN CAKE FLOUR

Pillsbury's
SNO SHEEN
CAKE FLOUR

SUPER-SOFT... for
higher, lighter cakes.

*Delicate as the petal
of a rose*

A "SUPER SOFT" FLOUR made of
ONLY the rarest wheat. It's the best
wheat with 100% protein. It's the best
single wheat flour. It's the best
wheat and gluten flour. It's the best
unusually soft and delicate!



How to get your husband out of bed on a frosty morning—Let the aroma of tender, flavorful Pillsbury pancakes drift up the stairway. It's better than an alarm clock! And when he takes his first mouthful of delicious, lightly browned "4-kernel" pancakes, you'll get credit for whipping up the tastiest pancakes that ever started a day off right! The combined flavors of the four kernels, wheat, corn, rye, and rice, give Pillsbury pancakes that "more, please!" taste. And while you're getting your Pillsbury's Pancake Flour today, tell your grocer to put in a package of Pillsbury's BUCK-WHEAT, too. Both kinds are ready-prepared. Just add milk or water!



Your lucky baby—1941 model! He wears neat, four-cornered pants, sleeps in a zippered bag, and, when he's three or four months old, gets his first cereal! He likes smooth, delicate FARINA because it tastes good! But you modern vitamin-conscious mothers select PILLSBURY'S FARINA because it helps build up the daily intake of Vitamin B₁. Nutrition authorities say this vitamin is essential to proper growth, good appetite, sound nerves. Get Pillsbury's FARINA, with added Vitamin B₁, from your grocer today. Its price is amazingly low!

STERLING (SOLID) SILVER, and a
wide choice of other things you want...
all yours for Pillsbury Thrift Stars

Save Thrift Stars, which come with Pillsbury's Best Flour, SNO SHEEN Cake Flour, Pancake Flour, Farina, and other Pillsbury products. They can be redeemed for a host of luxury and utility items—silverware, colorful towel sets, etc. For details see folder in Pillsbury's Best Flour bag, or see the outside of the other Pillsbury packages. For full list of THRIFT STAR premiums, write Pillsbury Flour Mills Company, Dept. O8, Minneapolis, and ask for THRIFT STAR BOOKLET.

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Streamlining That Starts Away Down Deep

THERE'S a definite feeling of depth and power in the flowing lines of the 1942 Lincoln-Zephyr, because its beauty is more than surface deep. ★ This modernness starts at the very core of the car! Built on an entirely new principle that sets it apart from other automobiles, the Lincoln-Zephyr is *naturally* streamlined right from its basic construction on through to its longer, lower appearance! ★ Free from excess weight . . . and with its V-type 12-cylinder engine more powerful than ever . . . this fine car gives you a different kind of ride. Relaxed on chair-high seats cradled amidships on longer, slow-motion springs, you skim along the highways with glider-like ease. ★ Interiors are roomy, more richly appointed this year. And the new Lincoln Liquamatic Drive with automatic gearshift* enables you to drive all day without shifting or even touching the clutch. ★ This is a good year to buy a better car. And the new Lincoln-Zephyr is truly the finest ever to bear the name. There's been no skimping on materials, no compromise with Lincoln traditions. The *quality* of the 1942 Lincoln-Zephyr also *starts away down deep!*

LINCOLN MOTOR CAR DIVISION, FORD MOTOR COMPANY
Builders of the Lincoln-Zephyr V-12 Sedan, Coupe, Club Coupe, Convertible Coupe, the Lincoln-Continental, Continental and Coupe, the Lincoln Corsair. See us at your nearest Lincoln dealer.

*Only on models at moderate cost

The Finest Lincolns Ever Built



Lincoln  Zephyr V-12



A QUIET LITTLE DEATH-BED SCENE ON THE UNIVERSAL MOVIE LOT CALLS FOR FOUR ACTORS, ONE DIRECTOR, TEN TECHNICAL STAFF MEMBERS AND A TRUCKLOAD OF EQUIPMENT



Up from his death bed rises the aged tycoon (Laughton) to hear Deanna sing. He thinks she is his son's fiancée. She's really a hat-check girl hired for the occasion. That's the story.

MOVIE OF THE WEEK:

It Started With Eve

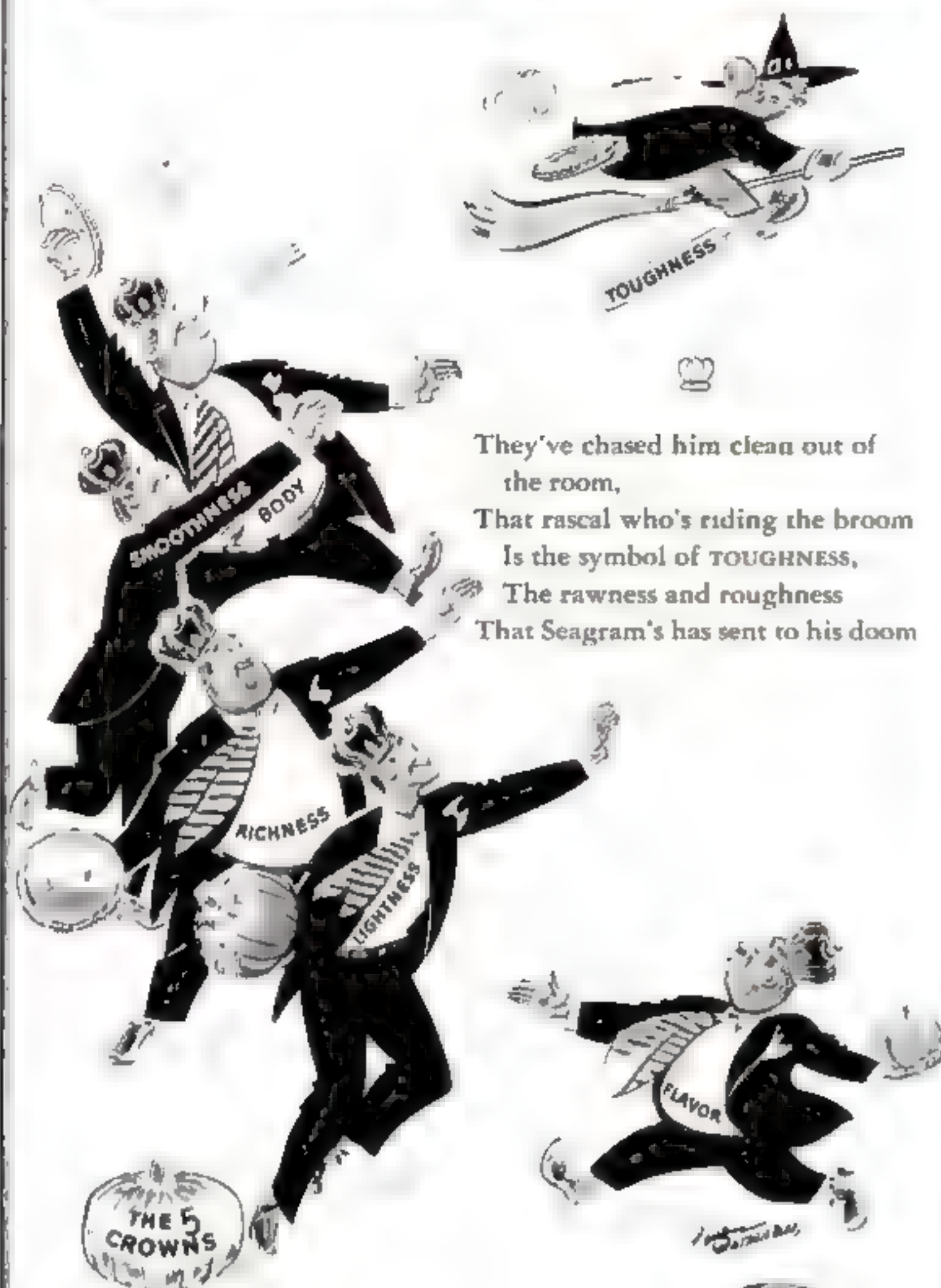
Deanna Durbin is a grown woman now, but Charles Laughton's capers steal some of the honors in her tenth box-office hit

Until her marriage April 18, Deanna Durbin played only demure or saucy little girls who, rarely, in a daring moment, got a chaste little puppy-love peck on the cheek. But now that she is Mrs. Vaughn Paul, wife of a Hollywood producer, she steps out in *It Started With Eve* as a full-grown cinema siren, capable of biting, kissing or slapping her man around. It took ten movies, all big money-makers, to work her and her captious fans cautiously up to this. Incidentally, her tenth is, next to her initial *Three Smart Girls* and *100 Men And A Girl*, her best.

As the only child star who weathered the awkward teen-age without once faltering at the box office, Deanna has much to assure a prolonged career. She has emerged into womanhood with a pretty face, a graceful figure, a good sense of comedy timing, a moderate competence at emotion and a voice as radiant as a clear spring morning.

But a big share of *It Started With Eve's* sly and merry quality must go to British Actor Charles Laughton who forms with Deanna a strange and happy team. His crusty 75 year-old tycoon, revived miraculously from a death bed by a pretty face and a shapely leg, is one of the year's most engaging characters. It gives him a field day for winking and mugging, whispering and roaring, shuffling around in a nightgown, romping over chairs and kicking up his heels in a thumping conga. If Gable and Turner have added to the screen this season's sultriest glow (LIFE, Oct. 13), Laughton and Durbin have given it the autumn's merriest twinkle.

Seagram keeps the
TOUGHNESS OUT
 ... blends extra
PLEASURE IN



They've chased him clean out of
 the room,
 That rascal who's riding the broom
 Is the symbol of TOUGHNESS,
 The rawness and roughness
 That Seagram's has sent to his doom

Yes, Seagram bids TOUGHNESS begone,
 It's out! It's completely withdrawn—
 So come Hallowe'en
 Be smart, sir, be keen!
 Drink Seagram's—it's light as the dawn!

**Seagram's
 5 Crown**

Seagram-Distillers Corporation, New York



**SAY SEAGRAM'S
 ... AND BE SURE!**

Seagram's 5 Crown Blended Whiskey. 86.8 Proof. 72 1/2% grain neutral spirits.

"It Started With Eve" (continued)



Dollar cigars are forbidden the tycoon by his doctor, but he fleches them as a youngster does candy. Having recovered, his main regret now is that his waistline shrank.



A gay old dog, Laughton now celebrates his new-found health by dancing a mean conga in a night club with the hat-check girl. At the sight of him, his doctor collapses.

CONTINUED ON PAGE 55

HOW TO END THIS IMPORTANT CAUSE OF TOOTH INJURY

**Millions Are Risking This Injury—
Be Safe! Brush Your Teeth
The Liquid Way**

*New Liquid Dentifrice Cannot Injure Teeth
—Contains Absolutely No Abrasives*

YES, literally millions of people are unknowingly causing serious damage to their teeth which Nature can never repair.

This injury is caused—not by the toothbrush itself—but by regular brushing with dentifrices containing abrasives.

Gradually, as the months go by, these abrasives cut cavities into the soft part of teeth along the gum line exposed by shrinking gums, where there is no hard, protective enamel.

In fact, among people who brush their teeth regularly, a very large percentage of all cavities along the gum line that require filling are probably the result of this injury. This was shown by a clinical study in a leading dental journal.

Disclosed By Scientific Research

These startling facts—long known to many dentists—were recently confirmed by scientific research. Eminent independent scientists made laboratory toothbrushing tests with a number of dentifrices containing abrasives. Every one cut cavities into the soft part of the teeth.

In the same manner, these scientists tested the new liquid dentifrice—Teel. In no case did Teel injure the teeth in any way, because Teel contains no abrasives of any kind.

MAKE THIS TEST

*to tell if your dentifrice
contains an abrasive*

Tonight, put some of your favorite dentifrice in a glass of water and stir. Let it stand overnight. When you see a white sediment in the bottom of the glass, you know your dentifrice contains an abrasive. Teel, however, leaves no sediment, proving it contains no abrasives whatever which could injure exposed soft part of your teeth.

How Teel Reveals Beauty Of Your Smile

Teel doesn't depend on abrasives for cleansing. Instead, it uses a newly-discovered patented cleansing agent that's almost magic-like in the way it helps reveal natural whiteness and beauty of your teeth. It isn't soap, yet multiplies into thousands of tiny, cleansing bubbles in the mouth.

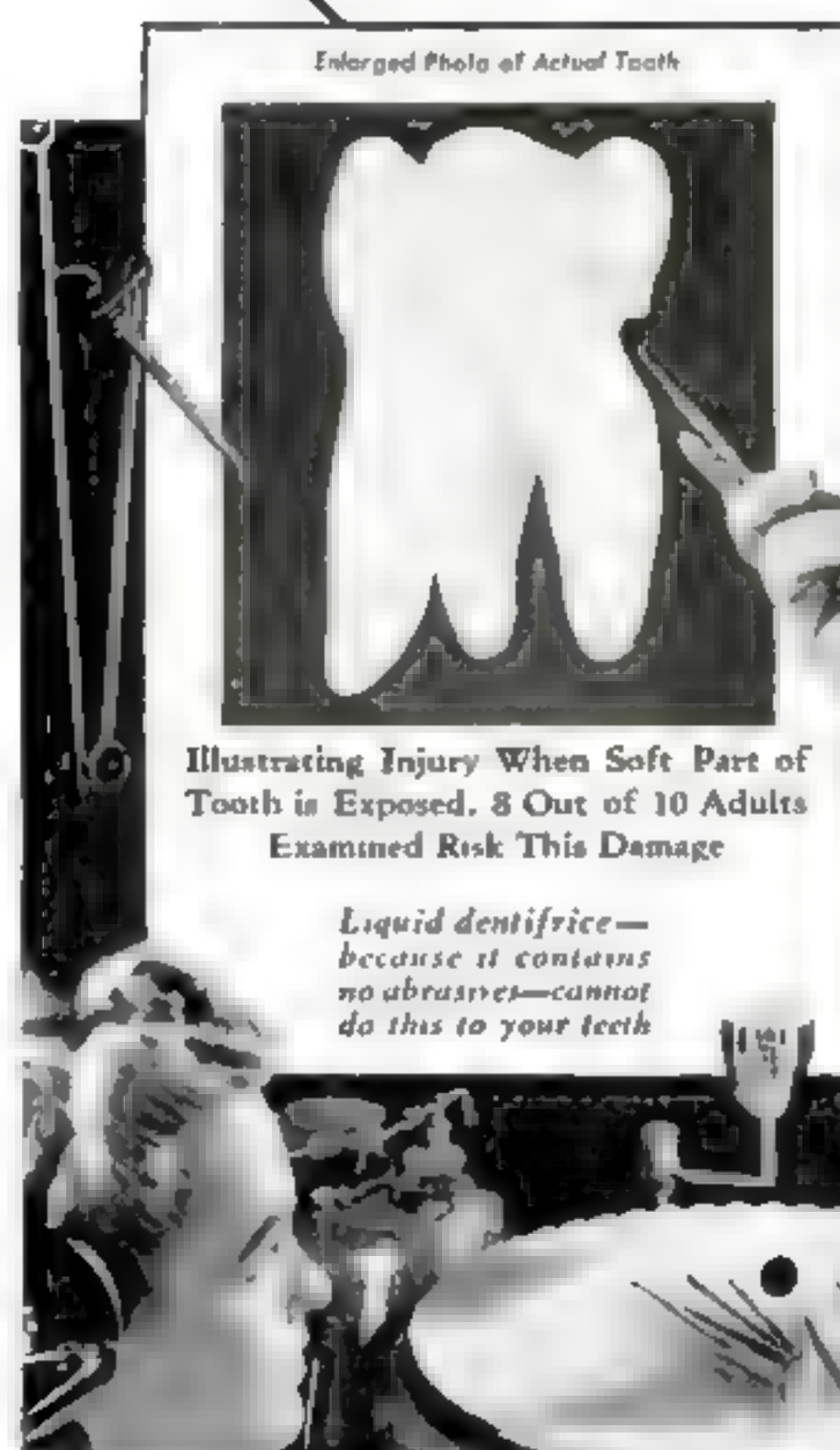
These active bubbles amazingly help to remove the daily accumulation of decaying food particles and the dulling surface film that hides natural brilliance of teeth. Thus your teeth look so much whiter, more thrillingly beautiful.

With your first Teel brushing, you'll know something good and different has happened by

**STOP CUTTING CAVITIES LIKE THIS
IN THE EXPOSED, SOFT PART OF YOUR TEETH
BY CHANGING TO LIQUID DENTIFRICE
—BECAUSE IT CONTAINS**

**ABSOLUTELY NO
ABRASIVES**

*It's The Abrasives
In Dentifrices
That Cause This
Tooth Trouble*



the satin-smooth "feel" of your teeth—by the glorious freshness of your mouth. Teel helps sweeten bad breath. It's easy to use and economical. Only a few drops are required for each brushing.

Start This Safe Liquid Way Today

Naturally, you want to save your precious teeth from the injury pictured above. If, however, you feel that your teeth need an abrasive scouring, at least occasionally, we suggest that you follow the special directions given on the Teel package.

So today adopt this safe liquid way of cleansing your teeth. Use Teel twice a day and enjoy its amazing benefits. Get Teel at any drug, department or 10¢ store. And be sure to see your dentist regularly for his professional care. Procter & Gamble.

TO DENTISTS, PHYSICIANS, NURSES, AND TEACHERS:
A booklet for professional people which contains an authoritative report of the scientific research summarized above will be sent to you on request, free of charge. Send your name and address to Teel, Box 687, Dept. OL, Cincinnati, Ohio.

**THE PRODUCT OF
MODERN DENTAL SCIENCE
FOR BRUSHING TEETH SAFELY**
*Use Instead of Tooth Pastes
and Powders*



CHANGE TO

Teel

LIQUID DENTIFRICE

*There's Beauty
in Every Drop!*





"LITTLE TOMMY TUCKER SANG FOR HIS..."

YES, he still sings—but now it's for his ice cream Dixie. And today the Tommy Tuckers and Little Miss Muffetts sing so lustily that these famous Dixie Cups of oh-so-good ice cream disappear to the tune of many, many millions . . . year after year.

To the youngsters of America the Ice Cream Dixie is tops in treats. And to their mothers and fathers it's the treat they prefer their children to have.

Why? . . . because ice cream is good for children . . . and because the ice cream companies who use the famous paper cup marked "Dixie" are pledged to pack in it, only their top-grade ice cream. The Dixie Cup brings it to the youngster, clean and without chance of contamination.

DIXIE CUPS

DIXIE-ORTEX COMPANY, EASTON, PA., CHICAGO, ILL. TORONTO, CAN.

DIXIE CUPS are safe guards of health at all times everywhere. In the office, in the shop, in public places, at soda fountains, on trains



and airplanes, the common drinking vessel is a thing of the past. The expanding uses of Dixie Cups are but an indication of the trend of the times



"It Started With Eve" (continued)



Deanna's first real love scene involves this frisky display of emotion. The man is the tycoon's son who, fearing death of his father, hired Deanna to act his fiancée.



A duel of lungs ends in a clean-cut victory for Deanna. These two also chase each other madly around Universal's gigantic set. When he catches her, he pinches her.



Deanna throws an oversized drink into Robert Cummings' face during a quarrel. But, as is customary in screen comedies, this only makes him love her all the more.

CONTINUED ON PAGE 58

LORETTA YOUNG, STARRING IN COLUMBIA'S "THE MEN IN HER LIFE"



Confesses Loretta Young, whose soft, supple skin takes such luscious close-ups:

"No make-up laden face on my pillow! Before retiring, I cleanse my skin with Woodbury Cold Cream—and it's a grand cleanser!

"But Woodbury Cold Cream is more than that! It softens and smooths, too—actually works three ways for beauty.

"So after cleansing, I put on a fresh, light film of this same wonderful cream and leave it on all night.

"That's my Woodbury Beauty Nightcap, and if you don't think it's helped my skin, ask my make-up man!

"He'll tell you that—thanks to Woodbury Cold Cream—my skin's so much smoother, clearer, softer!"

For special skins—these special creams. If your skin is normal, Woodbury Cold Cream is all you'll ever need for beauty care. But if your skin is oily, cleanse with Woodbury Cleansing Cream. If dry, use Woodbury Dry Skin Cream at night. And for any skin, use a film of the new flesh-tinted Woodbury Foundation Cream for a perfect powder base.

*"For a Lovelier Morning Complexion" says Loretta Young
"try my Woodbury Beauty Nightcap"*



WOODBURY Cold Cream
The 3-Way Beauty Cream

FREE 2 GENEROUS CREAM SAMPLES, Send Today!
(Paste on Penny Postcard . . . if you like)

John H. Woodbury, Inc., 8125 Alfred St., Cincinnati, Ohio
(In Canada, John H. Woodbury, Ltd., Perth, Ontario)

Please send me free sample Woodbury Cold Cream—the cream used by Loretta Young and other Hollywood stars. Also one other cream checked below. And 8 shades of new Woodbury Powder.

(Check only one) ☐ Dry Skin Cream ☐ Foundation Cream ☐ Cleansing Cream

Name _____

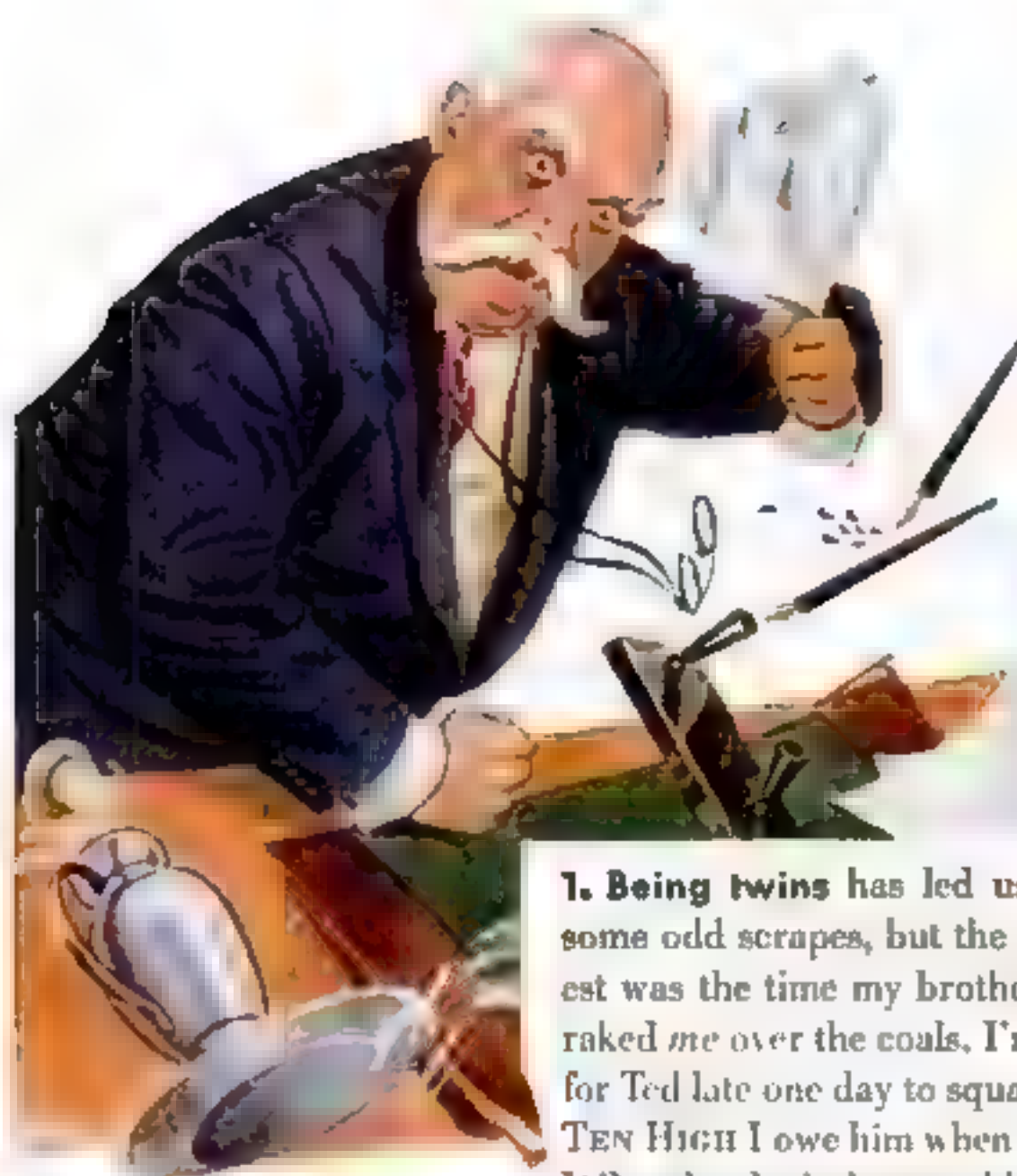
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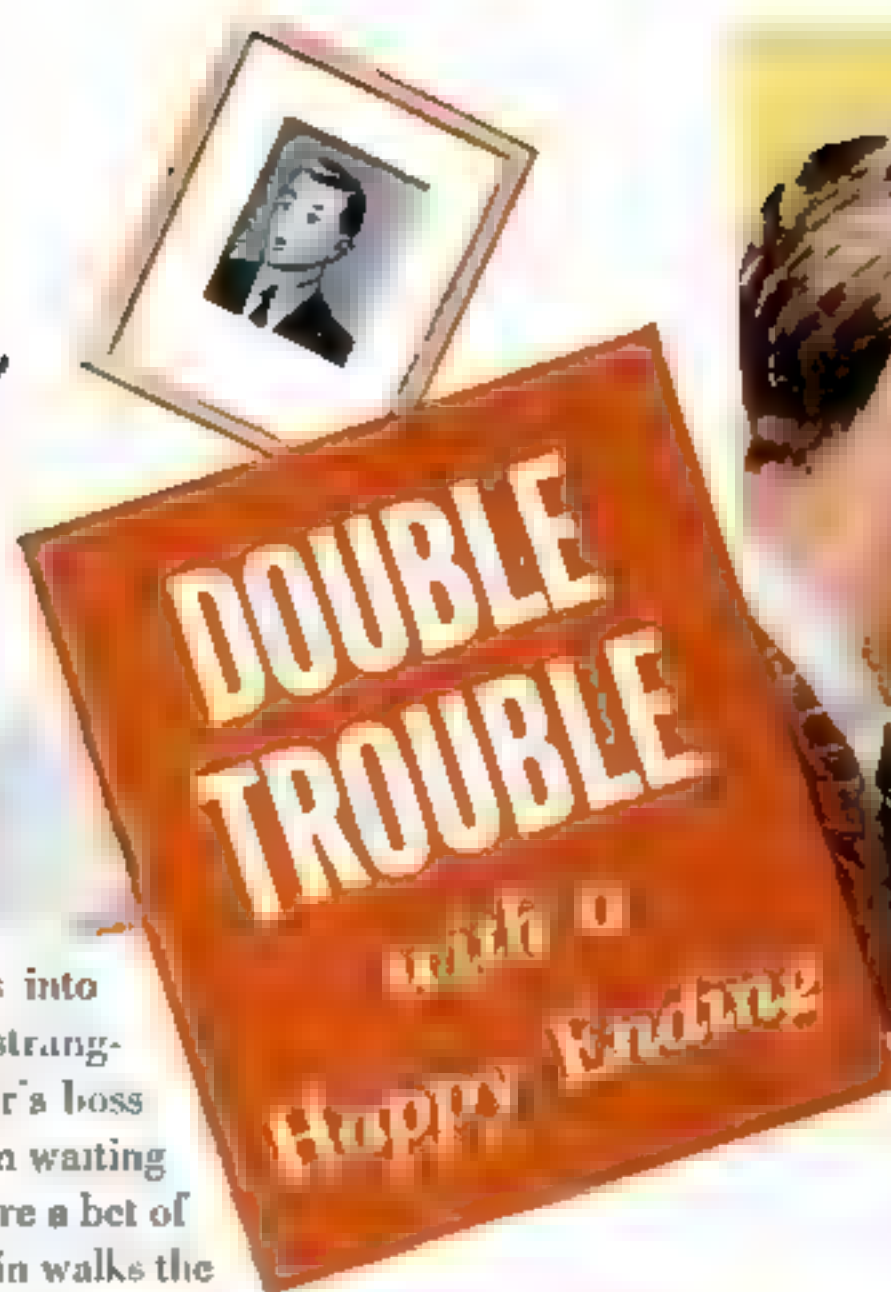
"Another tip", adds Loretta Young. "During the day, I always remove old make-up with Woodbury Cold Cream, before I put on fresh make-up. How much fresher, softer, my skin feels, looks! My one trusted cream is Woodbury."

No other cold cream contains the ingredient which makes Woodbury Cold Cream germ-free. Until the last dab in the jar, this marvelous cream is constantly purifying itself. So take Loretta Young's advice, get Woodbury today.

• TUNE IN "Adventures of THE THIN MAN"—NBC, Tuesdays, Pacific and Mountain Time Zones—Wednesdays, Central and Eastern Time Zones



1. Being twins has led us into some odd scrapes, but the strangest was the time my brother's boss raked me over the coals. I'm waiting for Ted late one day to square a bet of TEN HIGH I owe him when in walks the Y P with a look that would floor a tiger.



2. "Do you call yourself an accountant?" he bellows. "These figures don't begin to add up!" I try to explain that I'm not my brother, and stammer clumsily, "You've made a mistake, sir..." "I've made a mistake!" he cuts in, red as a rooster. "Young man, you're..."



3. Just then, in comes Ted with a sheet of figures that make the accounts balance like a breeze. He explains it had been found in the hall; then he introduces me to the boss. The old boy is pretty flabbergasted—but it turns out he's a good sport, after all.



4. "That's one on me," he chuckles, "for I'm a twin myself. Matter of fact, my brother's expecting me now—and," he adds with a twinkle, "if you two are going my way, what do you say we twins Double Our Enjoyment with a spot of TEN HIGH?"



5. At his private club he sets up the whiskey with *no rough edges*. "We're twins in a double sense," says Ted with a grin, "for TEN HIGH is our favorite whiskey, too!"

NOW, Double Your Enjoyment with TEN HIGH

You wouldn't dream a whiskey so rich could be so light and smooth. No heaviness...no rough edges... because modern scientific control in the world's largest distillery makes this whiskey completely *delicious*. That's why it's the favorite in so many homes and at so many bars. Ask for TEN HIGH today—and Double Your Enjoyment.

TEN HIGH

Straight Bourbon Whiskey or Straight Rye Whiskey—86 proof

Copr. 1941, Hiram Walker & Sons Inc., Peoria, Illinois



Only a ballet dancer, says Universal's press agent, could negotiate this neat bit of furniture hopping. Before she became a singing star, Deanna trained for the ballet.



Having cheated death, Laughton does a little furniture hopping, too. By this time the two men waiting in foyer to take his death mask have gone home discouraged.

WARM HOSPITALITY AND SPOTLESS CHARM GAVE

A Way of Life

TO THE FAMOUS TAVERNS OF OLD ENGLAND

*Today These Qualities are
Reflected in Tavern Home Products,
Outstanding Developments
of Socony-Vacuum Laboratories.*

TAVERN CANDLES—Fine examples of hand-dipped candlecraft that add charm to your home. Many sizes, lovely colors.

TAVERN NON-RUB FLOOR WAX—Goes on easily. Dries in 20 minutes to a beautiful sheen. Won't water-spot. Less frequent applications needed.

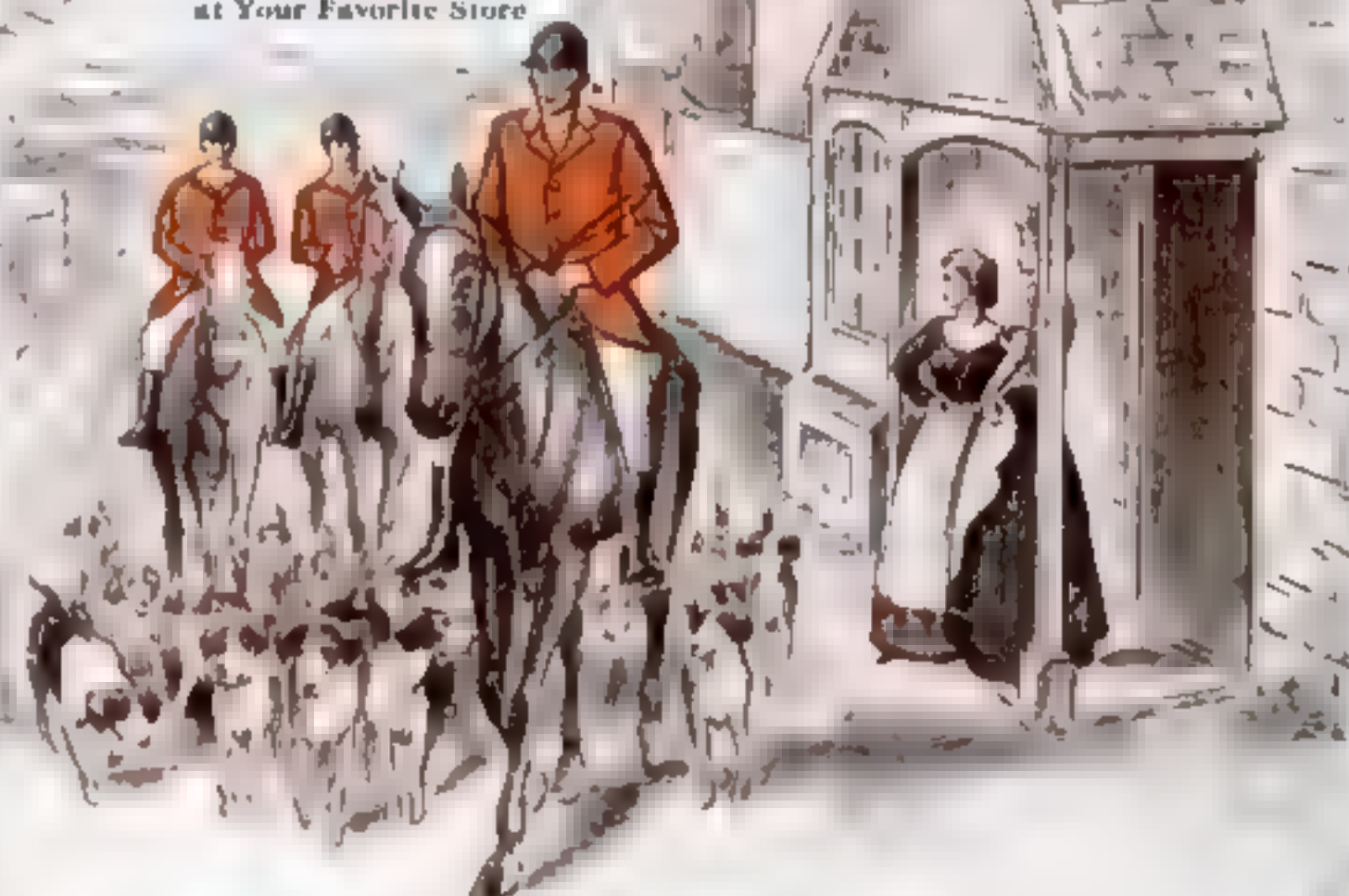
TAVERN PAINT CLEANER—Makes dirt and smudges vanish from painted surfaces. Ready to use. Won't harm finish.

TAVERN LUSTRE CLOTH—Woven to hold polishing materials. Picks up and holds dust—produces lustrous finish.

ALSO
TAVERN RUG CLEANER
TAVERN PASTE WAX
TAVERN FURNITURE GLOSS
TAVERN LIQUID WAX
TAVERN LEATHER PRESERVER
TAVERN WINDOW CLEANER



Ask for Tavern Candles
and Tavern Home Products
at Your Favorite Store



This quaint countryside scene appears on all packages of Tavern Home Products.



TAVERN
Home Products
BY SOCONY-VACUUM



ON THE COAST OF MAINE, WHERE HE NOW LIVES, DR. CRONIN PICKS BLUEBERRIES FOR HIS YOUNGEST SON ANDREW. KNEELING BESIDE HIM IS NEPHEW MACGREGOR RITCHIE

THE KEYS OF THE KINGDOM

IN HIS THIRD BEST SELLER
SCOTLAND'S WRITING DOCTOR
TAKES FAITH FOR HIS THEME

Every fall one book steps out boldly from among 11,000 titles published annually in the U. S. to become the novel of the year. Last season's winner was Ernest Hemingway's *For Whom The Bell Tolls* (LIFE, Jan. 6). This year's is certain to be A. J. Cronin's *The Keys of the Kingdom* (Little, Brown & Co., \$2.50). Published July 21 as a Book-of-the-Month Club selection, it has already made a phenomenal record of 338,110 sales at the end of its second month on the market. By Christmas it is expected to pass the half million mark. When, in 1942, it will be made into a movie by David O. Selznick, a reprint edition will boost the total by more hundreds of thousands.

Writing best sellers, however, is no new experience for the tall, sandy-haired Scottish doctor who is its author. His blistering condemnation of fashionable London physicians has brought *The Citadel* to the half million mark since its publication in 1937. Even his first book, *Hatter's Castle*, written ten years

ago, was an overnight best seller (70,049 copies). Now, dealing with a religious theme, he reveals the same driving narrative power, the same concern with medical matters and care of the poor, the same melodramatic plot and the same searching, if sentimentalized, humanity of feeling.

Yet, until his 33rd year, Archibald Joseph Cronin never seriously intended to be a writer at all. Born in poverty of Scottish village folk, he worked his way through Glasgow University's medical school, treated coal diggers in dreary Welsh mining towns and built up a lucrative practice in London's smart West End. So far he had written only his patients' prescriptions and three scientific tracts. Then, stricken with ulcers, he retired to a lonely Scottish Highland farm and, out of boredom, after days of painful groping, feverishly poured out his first story, a quarter of a million words long. He never returned to medicine.

For the conception and writing of *The Keys of the Kingdom*, read Dr. Cronin's article on page 64.

CONTINUED ON PAGE 62

PUZZLE:

Find the Bulb



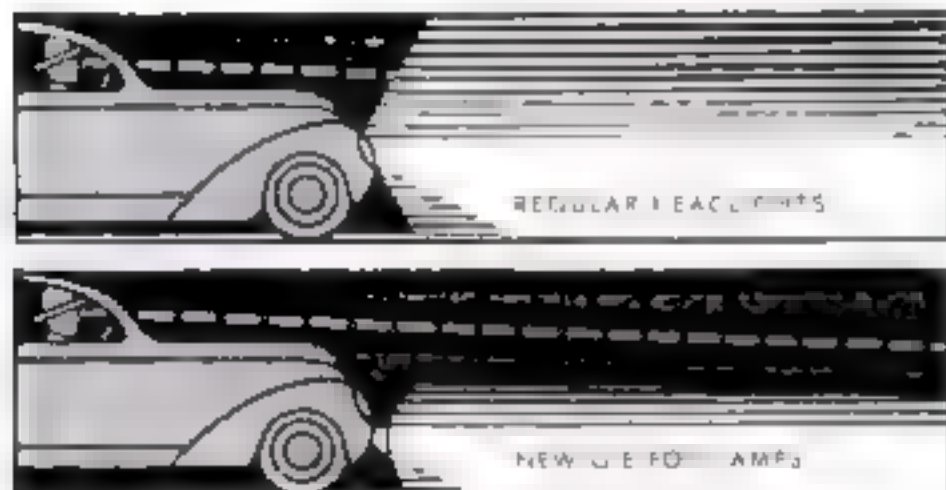
DON'T squint too hard to find the light bulb in this new G-E headlamp. The whole thing is a G-E MAZDA lamp bulb. And that's the secret of its success!

The reason is that filaments are *hermetically sealed* inside a glass lens fused to a glass reflector. Dirt and moisture cannot enter. Loss of light from blackening is almost nil.

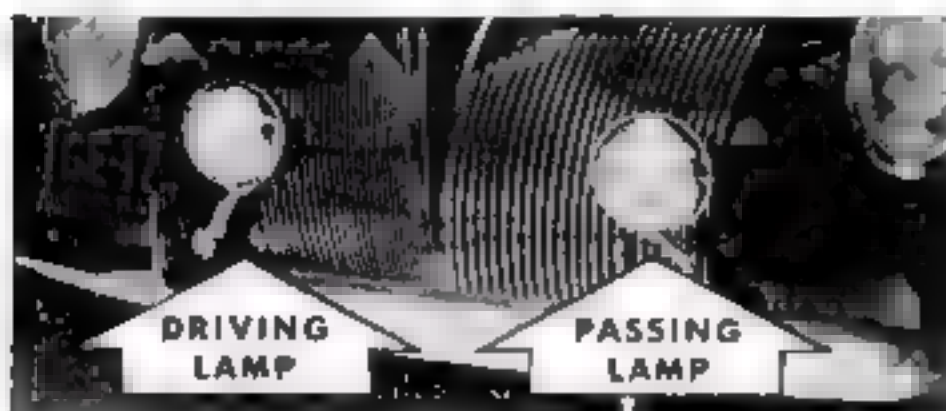
You'll see the difference the first time you drive at night behind these "all-glass" G-E MAZDA Sealed Beam lamps. They put 50% more light on the road than pre-1940 headlights, and last longer, with practically no loss of light. The powerful "country" beam shows up driving hazards far ahead. The "traffic" beam floodlights your side of the road without bothering other drivers.

For safer, easier night driving, insist on "all-glass" G-E MAZDA Sealed Beam lamps for your '42 car, for replacement on your '40 or '41, or in adaptors for headlamps on pre-1940 cars.

TWO OTHER TYPES OF "ALL-GLASS" G-E LAMPS



NEW G-E MAZDA FOG LAMPS have same "all-glass" construction. What made driving in fog difficult, G-E engineers found, was "stray light" reflected back from the fog. By striping edges of lens prisms and shielding the filament they produced an entirely new type of fog lamp that works as shown above. Amber or clear glass.



YOU CAN TRIPLE THE LIGHT on your pre-1940 car by installing "all-glass" G-E MAZDA Driving and Passing Lamps (Glaseal System) on the bumper.

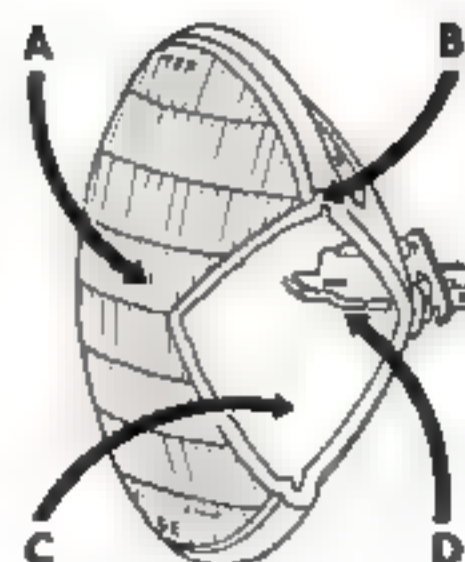
G-E MAZDA AUTO LAMPS

GENERAL  ELECTRIC

Always dim your lights when meeting other cars.



ACTUAL SIZE of new "all-glass" G-E MAZDA Sealed Beam lamp is shown in cutaway photo above. It's hermetically sealed. Glass lens (A) is fused (B) to glass reflector (C). Dirt and moisture can *never* enter to cut down light output. Fixed filaments (D) can never get out of focus with lens or reflector. G-E MAZDA Fog lamps and Driving and Passing lamps have this same basic construction. Look for the initials "G-E" on the lens.

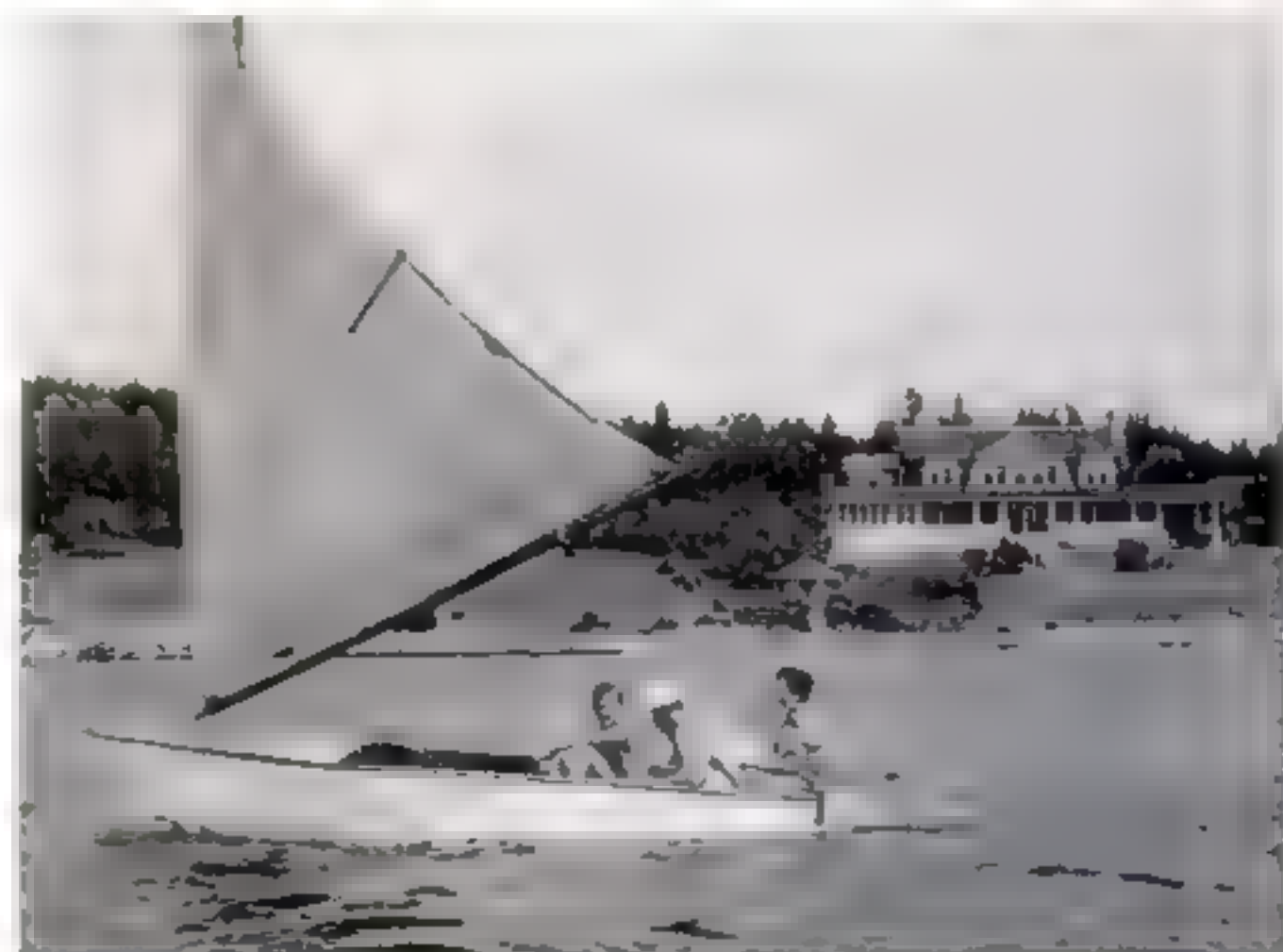




Drive Those Morning Blues Away
With a Big Glass of
*DOLE Pineapple Juice from Hawaii, U.S.A.

*It'll freshen your taste as the dew freshens flowers,
Send you with a song on your way to your showers,
And help start each day in a mood unassailable,
Because its food energy's quickly available.

"The Keys of the Kingdom" (continued)



Sailing in the cove before the house at Blue Hills, Maui, scene of Dr. Cronin's favorite diversions. With him are sons Victor (17), Barry (16) and Patrick (15).

CRONIN'S PRIEST IS A SIMPLE MAN OF GOD

Every good novelist puts something of himself into his books. So it is natural that Francis Chisholm, the humble little priest in *The Keys of the Kingdom*, should, like his creator, have spent a Catholic childhood in a Scottish town, should sometimes have suffered for his creed, should have been left fatherless at an early age. But for the model of his modern saint Dr. Cronin drew on the memories of his uncle, a selfless Catholic curate who helped the lonely boy get into a career.

To his more worldly fellow clergies, Father Chisholm is a failure. His painful honesty brings him a constant rebuke from his superiors. His endearing tolerance rates rebuke when he persists in his best friend, an attempt to do without extreme action. His far-seeing simplicity evokes smiles of disdain or frowns of contempt from clergymen who, as one pundit puts it, look "like successful undertakers."

Hastled out of the way to a remote, primitive mission in China, Father Chisholm at first endures loneliness, poverty and insult. He sleeps in a stable and subsists on potato and oat porridge. Stoked by suffering and disease everywhere, a saintly man opens a dispensary and, after great labor wins a few converts. His mission compound, built partially with his own hands on the Hill of Brilliant Green Jade, crumbles to rubble in a flood. Monumentally patient, heroically sincere, this artless priest survives plague, famine, war, banditry and terrible torture to leave behind him, on a distant alien hilltop, a lasting sign to his faith.

When, in eccentric old age, he returns to his native Scotland, no one who has entered the circle of his life has been left untouched by his goodness. Even the lordly merchant of Pictou, once so haughty and aloof, is finally converted, not by words but by example.

It is his bishop who tells troubled Father Chisholm that, in the eyes of God, he is no failure. "You are the strength who comes stalking up the aisle when everyone is yawning their heads off if a dull sermon. You are one of our ecclesiastical milliners who must have everything stitched up in little packets. And the nicest thing about you is, you have not got that pompous security which springs from dogma rather than from faith."

CONTINUED ON PAGE 64



Ice-cream cones at the Blue Hills drugstore mark a partial Americanization of Dr. Cronin. Andrew and Marge (B) the girl is 10; child (left) against American along



JOHN CHARLES THOMAS
as Figaro in *The Barber of Seville*



KIRSTEN FLAGSTAD—LAURITZ MELCHIOR
as *Tristan and Isolde*



ROSE BAMPTON
famous American Metropolitan star as *Aida*



RICHARD CROOKS
as Mr. Pinkerton in *Madame Butterfly*



MARIAN ANDERSON
world-famous interpreter of spirituals and lieder

Many Singers have recorded
Schubert, Wagner, Verdi, Brahms
BUT ONLY
VICTOR RED SEAL RECORDS
bring you these glorious voices of
the World's Greatest Artists



ALEXANDER KIPNIS
world-famous interpreter of Brahms

THERE have been many Isolde, but only one Flagstad . . . many Tristans, but only one Melchior! Of all the singers of spirituals and lieder, Marian Anderson's superb interpretations are outstanding for beauty and depth of feeling. Kipnis, singing the songs of Brahms, renews their immortal splendor. All the richest treasures of vocal music—thrilling operatic arias—romantic ballads—the songs the world loves most—come to you on Victor Records performed by the world's greatest voices.

And Victor Red Seal Records bring you not only the great vocal artists, but the world-renowned conductors as well . . . Toscanini, Ormandy, Koussevitzky . . . the celebrated in-

strumentalists . . . Rachmaninoff, Paderewski, Hess, Rubinstein, Schnabel, Sanromá . . . Kreisler, Heifetz, Menuhin, Spalding . . . Primrose, Feuermann. These magical names typify the eminence and distinction of Victor Record artists—a veritable Who's Who of the musical world! And because Victor recording science sets the standard for lifelike fidelity and brilliance, the world's greatest artists come to you at their thrilling best on Victor Red Seal Records.

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To introduce you to the Victor Record Catalog . . .
the world's greatest treasure house of music . . .

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is making this sensational offer on Victor Red Seal Records No. 18221 and No. 18223

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\$1.00

Get the Other One
FREE

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Sung by Rose Bampton, famous
star of the Metropolitan Opera.

AND

"CÉLESTE AÏDA" Sung by
Beniamino Gigli—two arias
from Verdi's great opera, *Aida*.

No. 18223 "WHEN I WAS A
LAD" from Gilbert and Sulli-
van's famous operetta, "H. M. S.
Pinafore"

AND

"THERE IS NO DEATH."
Both sung by John Charles
Thomas. Two stirring selections
by one of America's finest voices.

This offer for a limited time only. Watch your local paper for a similar offer on instrumental music which will start at a later date. Make your reservations now.



The World's Greatest Artists are on
VICTOR RECORDS

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Costs less than Unexposed Film...OWN IT!

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...a professionally produced home movie that cost hundreds of thousands of dollars to make!

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TRAVEL... FUN CARTOONS... 100
different CASTLE films... yours
to own and enjoy forever!

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"The Keys of the Kingdom" (continued)

HOW I CAME TO WRITE A NOVEL OF A PRIEST

FOR TEN YEARS HIS CHARACTER WORRIED ME

by DR. A. J. CRONIN



THE NOVEL OF THE YEAR

Some years ago, when such things were possible, I was in Rome where the air was full of spring and the celebrations of the anniversary of a famous saint of the Church. Starkly ascetic, rigid in self-denial, he had ruled a great religious order and had never done a wrong thing in his life.

My companion at that time was an Englishman, a good fellow, but rather pompous, intellectually exuberant. So carried away was he by the whole proceedings he decided there and then that I must write a book about this classic example of saintliness. He kept intoning to me solemnly three times a day: "What an opportunity! What a character."

It was there and then that I made up my mind to write a novel about a totally opposite character. Amidst the fanfare, and the sale of gauntly profiled medals, it was amusing to visualize a short, balding, human little man who had made mistakes, fallen down and picked himself up again, something of a rebel, who hadn't believed easily, a man with human weaknesses who might perhaps, like Peter the first parson of all, be fond of fishing, who had been kicked around a good deal by his superiors in a good many places and yet faithfully, devotedly, obscurely, had loved and served his fellow man. For him there would be no pomp, no ceremony, no canonization. Perhaps he might be judged a failure. I saw him suddenly as a missionary, perhaps the roughest assignment the Church could give, and the East, which I knew from the peregrinations of my youth, seemed as good a place as any for him to fail to convert the heathen.

I thought about this considerably and enjoyed doing so while my friend boomed at me through tangles of spaghetti and the sunshine lit up the flagstones at our feet. But, alas, mature and sober consideration made me shy away from the idea. I knew the difficulties. I had no wish to produce a tract about the Problems of the Soul, with a prig for a hero and a handful of morals stuck on like sugarplums for embellishment. Relentlessly, I put the idea away from me.

The time was ripe

But suppressed ideas are more trouble to the novelist than a nagging wife. They germinate beneath the surface, keep sprouting up on the slightest provocation. Off and on over a period of more than ten years that idea worried me, until finally in 1939 I gave in.

Then, more than ever, the time seemed ripe for the kind of book I wanted to write. The world was swamped with hatreds, strangled by fear, crushed beneath brutality. In the face of the sweeping tides of force and greed there seemed desperate need for the forgotten virtues: liberality, tolerance, brotherly love. It was useless to meet chaos with complacency. All this talk of the brave new world which must be recreated from the existing havoc seemed pious hogwash without a regeneration of spirit, of the heart of every man. I felt most urgently that I must risk being laughed at, that I must make a plea for simple goodness. And so, with a sigh, I resurrected my stubborn little fisherman, and started him upon his journey as my pilgrim of the night.

I had no specific purpose, no ax to grind in making my hero a Catholic priest, he might just as well have been a Congregationalist or a Seventh-Day Adventist. But an author can only write from his own knowledge and as a Catholic this was the aspect of religion familiar to me. I hadn't the slightest animus against the Church. Quite the contrary. I was her loyal son. But I couldn't keep hinting that it is possible for one to admire the treasures within a cathe-



A parental inspection is made by Dr. Cronin of the model airplane fashioned by his son Patrick. The two younger boys go to the Portsmouth Priory School in Rhode Island.

dral and yet be critical of some of the gargoyles on the roof. However, this was a side issue. Above all, I wanted my book to be universal, without rancor, full of the unbiased impulse which had motivated it.

Once I had begun I found the going hard. While some authors have trained themselves better, writing is for me a dreadful anguish. If I am eventually lost, which God forbid, they will have no need of everlasting fire. It will be enough to keep me writing and writing through the eternal darkness. Also, it is unfortunate that I write best under conditions of acute discomfort. Galsworthy, for instance, whom I knew quite well, wrote on the finest foolscap while reclining in an overstuffed chair, while the butler reverently collected the manuscript before dinner and placed it on the *secretaire* as the first thing to be removed should the house catch fire. But I wrote *The Keys of the Kingdom* in an attic box room. I was half frozen and always running out of pencils. The exercise books got badly mixed up on the floor and I never knew which chapter was which. In addition, I got indigestion but this, after all—when one considers what my work does to the critics—was to be expected.

Normally it takes me six months to complete a novel. This one took me more than a year and even then it didn't satisfy me. I kept on cutting and rewriting, until I could bear the look of the manuscript no longer. I sent it to my publishers.

Ordinarily, when I have, in sheer exhaustion, written "Finis" to a novel I have scant enthusiasm for its subsequent adventures. I feel that I have done my worst. All that matters is that I am rid of it. But this time it is different.

Because this book was such a shot in the dark, because it took the utmost of my small amount of courage to pull the trigger, I am

CONTINUED ON NEXT PAGE



He plays chess with his wife in the big living room overlooking Maine waters. Mrs. Cronin, who is likewise a physician, checks all her husband's manuscripts for errors.

Years ahead in life and power!



The battery illustrated is the Master Duty "110" with exclusive "Safety-Fill" construction that prevents over-filling and corrosion.

New Willard Batteries Last Longer·Start Faster Won't Let You Down!

Buy a SAFETY-FILL BATTERY Willard

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Texcel, the improved transparent Cellophane tape, has a hundred crafty tricks for making mending and sealing jobs easier, speedier, thriftier! Texcel needs no moistening, sticks at a touch, stays where it's put, and rips off with one clean motion when you want it to!

You'll like Texcel's handy double-duty dispenser, too, that snips off just the length of tape you need, either before or after applying. Dispenser rolls, 15¢ and 25¢ at your favorite stationer, drug, department store or 5-and-10. Also comes in plain 10¢ rolls.



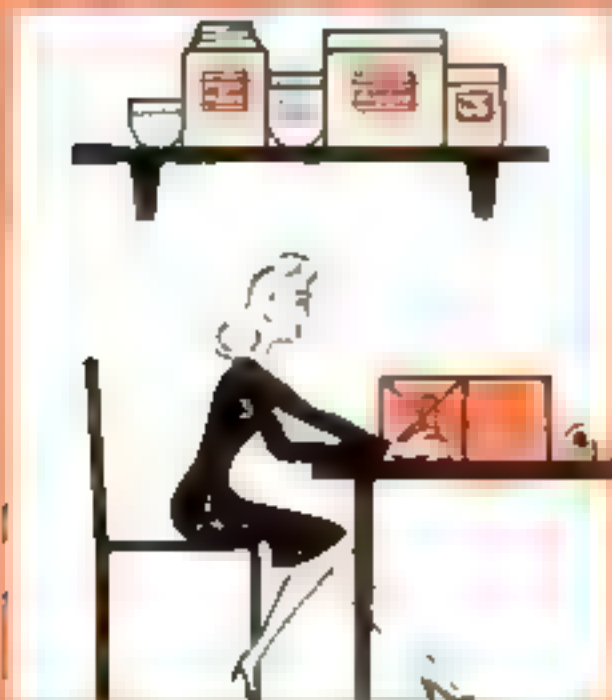
For sealing garment bags and boxes, for packing away summer clothes and slip-covers...Use Texcel!



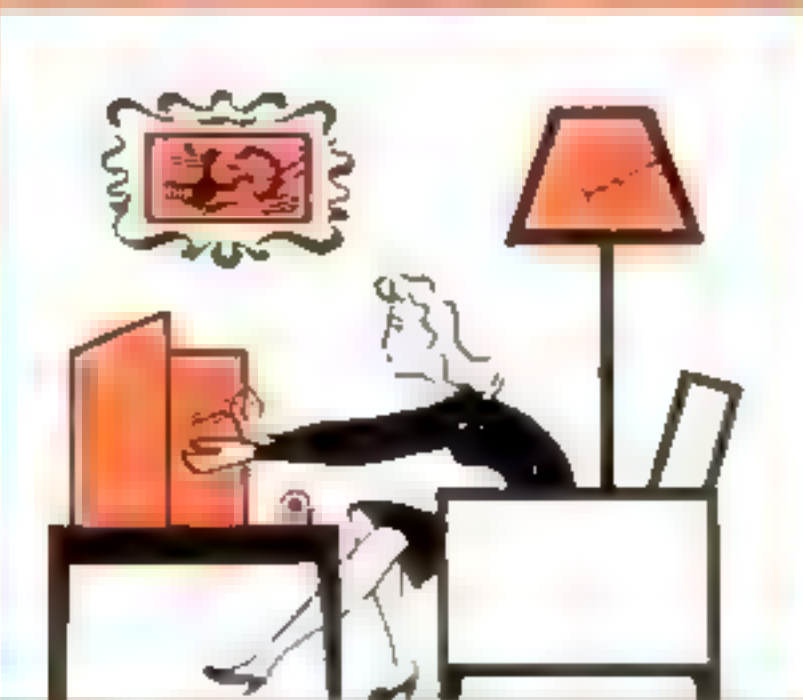
For mending torn wallpaper, raincoats, for sealing in bureau-drawer linings...Use Texcel!



For mending shower curtains, sealing jars and bottles, labeling medicines for safety...Use Texcel!



For sealing packages neatly, smartly, for sealing and labeling jelly glasses...Use Texcel!



For mending torn books, papers, sheet music, lampshades, for mounting photographs...Use Texcel!

TEXCEL CELLOPHANE TAPE

"The Keys to

deeply grateful for ^{kingdom} for a few smart jeers. from everyday people tell them and how they felt the almost faruous pride (continued)

There have been a few protesting, some the usual publicity seekers, sense of grievance, though their criticism in the extreme. Such petty carplings intolerance against which the book is launched. I was prepared a few "narrow-minded bigots" typify a very real now confronts the Church. In his opinion these petty the Church harm by discrediting it in the eyes of non-Catholics who are liberal and tolerant in their views the book should gain respect for the Church and those condemn it are in danger of defeating this end.

It is possible to swallow the camel and strain at the gnat. As there is one injunction which comes to mind: "First cast out the beam out of thine own eye; and then shalt thou see clearly to cast out the mote out of thy brother's eye."

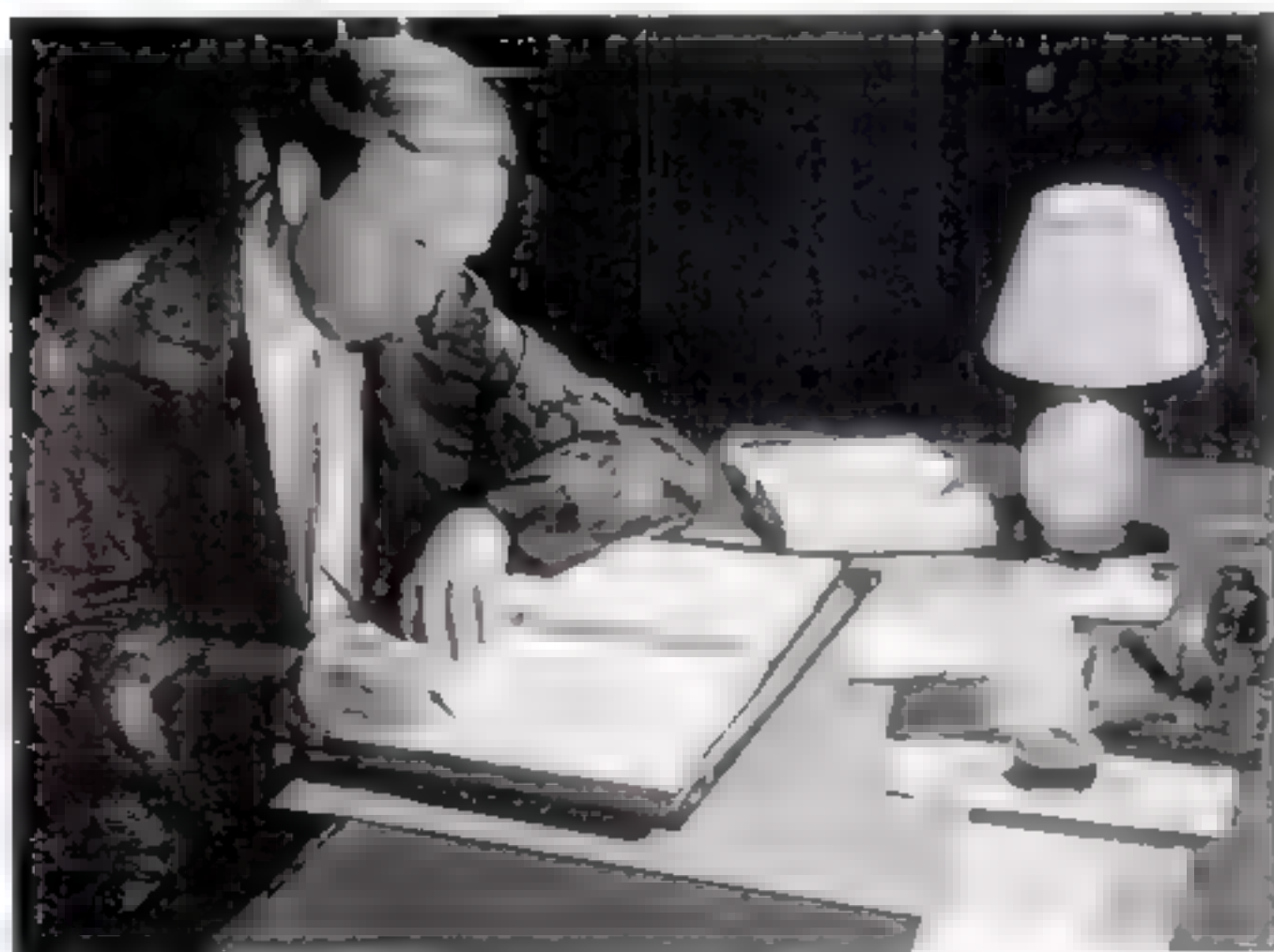
For pulpit purposes many clergymen prefer their characters black or white. It simplifies the difference between good and evil. But life is not like that and the line of demarcation scarcely so exact. Nor does one especial creed create a stake fence between the elect and the damned. What is so often forgotten even by her most fervent protagonists is the fact that the Catholic Church is the most wisely tolerant of all mothers. She teaches, for instance, that if a person is in good faith, no matter what his race or creed, he will be saved. Thus, when the cannibal eats the missionary, if he does so from honest motives, he will go to Heaven, while the missionary, at least if he be one of Mr. Somerset Maugham's, has every chance of reaching Hell.

But the few raps over my knuckles have been more than offset by the backslaps. I like the sporty padre who wired me from Florida: "Don't be downhearted—if the evangelists wrote today they'd catch it worse than you." My handsomest tribute, however, came in a perfectly unsolicited note from an old parish priest in Maine: "I got many a chuckle," he wrote, "but at the same time tears came often to my eyes. It seemed uncanny how one could write so well of the priesthood without being a member of it. It was like having someone look over one's shoulder. I intend to reread the book during the long Maine winter and use it for meditation. It may do me more good than so-called pious books."

That, I think, is very sweet—worth all the labor of this book and all my others lumped together.

From the outset I had been dubious about the chances of this novel in Hollywood. I wrote to my friend, Hedda Hopper, that no one would have the courage to make the picture of a story which aroused such controversy, and in this she agreed with me. So I am wrong in the right company. I draft this article aboard a TWA plane enroute for California to discuss with David O. Selznick plans for the making of the film.

Drifting through the clear sky in this great plane, the world beneath seems very small with men like tiny ants. If we look like that to God, it's awfully hard to tell a bishop from a bricklayer.



He writes with pen and ink in a ruled notebook. At his elbow lies a thesaurus. He uses few notes. Before he sits down to compose, he has his story clearly in mind.

EASY-TO-MAKE HALLOWEEN TREAT!



Bewitch the family appetites with this delicious taste thrill. Only 10 minutes to make—and so inexpensive!

For the night when witches ride—and for every festive occasion—Rice Krispies Marshmallow Squares! They're crisp, savory, with a rich, melt-in-your-mouth goodness everyone goes for!

They've a score of uses, too—as a party confection, a dessert, a tidbit for bridge or tea-table, a wholesome treat for youngsters' lunch boxes.

Their marvelous crunchiness? It comes from Kellogg's Rice Krispies—the crispest cereal ever. Rice Krispies are uniquely flavored, oven-popped and toasted. In milk or cream they snap! crackle! pop! They're *that* crisp!

Buy two packages of Rice Krispies today. Enjoy one as a temptingly different breakfast dish. Use the other with butter and fresh marshmallows to make the gloriously simple recipe below.

RICE KRISPIES MARSHMALLOW SQUARES



MADE WITH AMERICA'S MOST SENSATIONAL BREAKFAST CEREAL!

Kellogg's Rice Krispies stay CRISP to the last spoonful. Hear them snap! crackle! pop! in milk or cream. Super-scrumptious with fruit!



KELLOGG'S RICE KRISPIES MARSHMALLOW SQUARES

YIELD: 16 2 1/4-inch squares (10 x 10-inch pan)
NOTE: Nut meats and coconut may be added
2 ounces of melted unsweetened chocolate or 4 ounces of melted semi-sweet chocolate may be added to the marshmallow mixture just before pouring over Rice Krispies

Melt butter and marshmallows in double boiler. Add vanilla, beat thoroughly to mix. Put Rice Krispies in large buttered bowl and pour on marshmallow mixture, stirring briskly. Press into shallow buttered pan. Cut in to squares when cool.

Yield: 16 2 1/4-inch squares (10 x 10-inch pan)

Note: Nut meats and coconut may be added

2 ounces of melted unsweetened chocolate or 4 ounces of melted semi-sweet chocolate may be added to the marshmallow mixture just before pouring over Rice Krispies

*Rice Krispies is a trade mark (Reg. U. S. Pat. Off.) of Kellogg Company for its oven-popped rice.

AT GROCERS' NOW! GET YOUR WINTER'S SUPPLY!

Del Monte



GET YOUR
SHARE OF THESE
ROUND-UP VALUES!



STEP ON IT, BOYS!
THIS HYAR ROUND-UP
ONLY LASTS A
MONTH!



3RD ANNUAL ROUND-UP

WE'VE HERDED 'EM IN
FROM FAR AND NEAR!
—a whopping spread of foods
for your winter pantry!

Tie your bonnet on, Ma'am! Go early—go often!
It's Round-Up time again!
For the next month, grocers everywhere are featur-
ing scores of Del Monte Foods. Many are offering spe-
cial savings by the case or dozen lots.
Visit your own grocer's Round-Up. See all the differ-
ent Del Monte Foods he has on his shelves. Pick your
favorites—fill your pantry, every empty inch of it.
You can't miss—with grand good eating like this to
choose from.

I DON'T WANT A HOME WHERE THE BUFFALO ROAM
OR A RANGE WHERE THE DOGIES ARE WILD
I JUST WANT A SHELF OF DEL MONTE MYSELF
AND PARTNER, THAT'S PUTTING IT MILD

TAKE THE
SHORT-CUT
TO YOUR GROCER'S
—THIS WEEK!



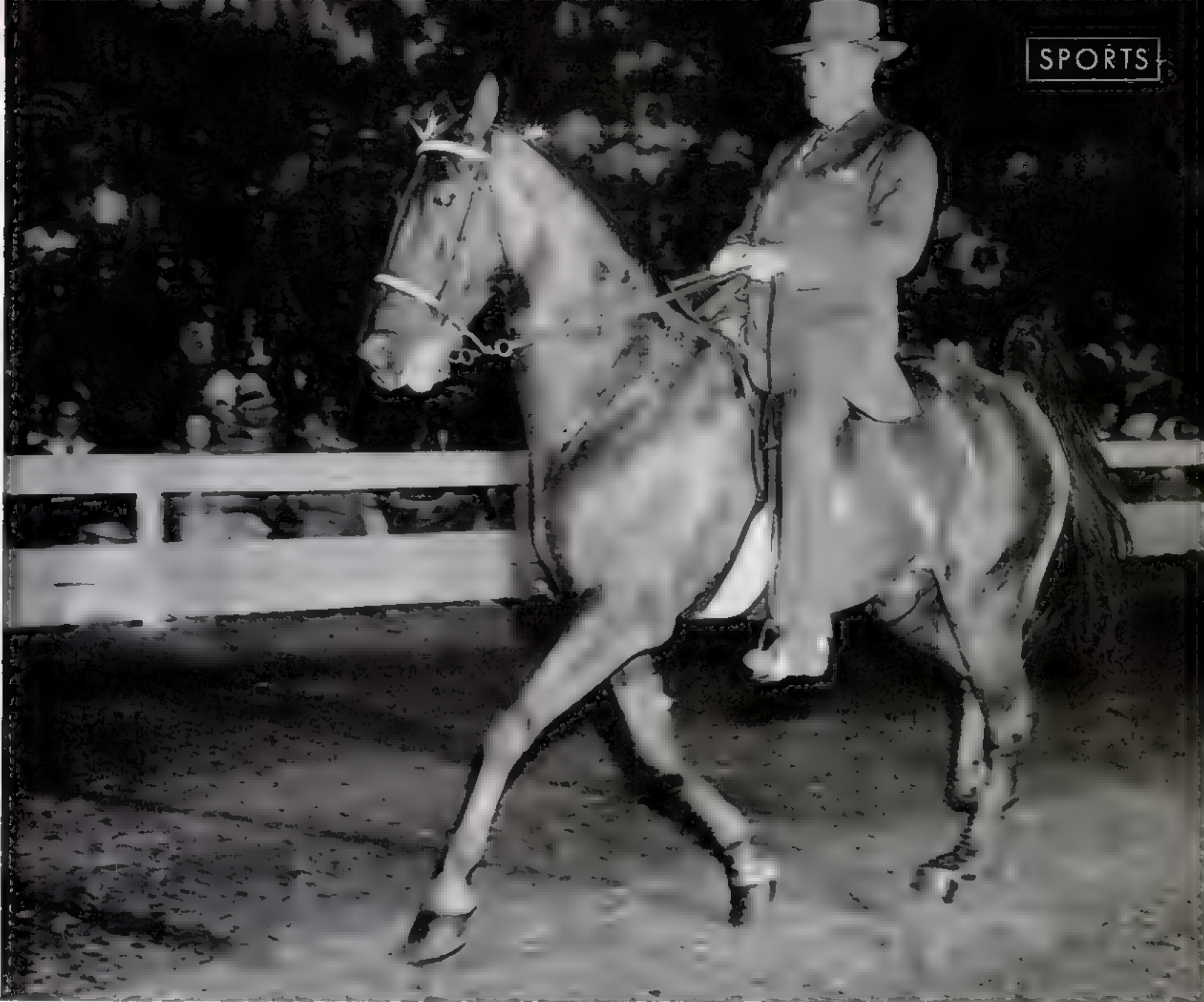
"I'll never change or forget," she said. And the glory of her face happens to be imprinted on his heart forever. She never did forget. . . . Today the lovely woman who stands beside him wears a necklace worth a queen's ransom. But on her left hand, stretched impulsively to those she welcomes, shines a quaintly modest point of light. Many times her children have begged her to change it. "I'll wear it as it is," she answers gently. "It is the ring your father gave me when we were engaged." . . . Not every young man marrying now will make his mark to the extent of diamond necklaces in later life. But he should consider in buying his own

engagement ring the curious love and loyalty of women, that will never give up this ring however many others come with mature successes. He must therefore secure a diamond fine

enough in size and quality to take a simple, timeless setting. Many fine stones are available in today's favorable market priced approximately—one-half carat, \$125 to \$275; one carat, \$325 to \$650; two carats, \$900 to \$2000; three carats, from \$1500. He should remember that these exact

weights occur infrequently, and that color, cutting and absence of imperfections affect price equally. A trusted jeweler is his best adviser. Many if necessary will arrange extended payments for a worth-while diamond. . . . De Beers Consolidated Mines, Ltd., and Associated Companies.





HAYNES PEACOCK, VETERAN CHAMPION, GOES THROUGH HIS PAGES IN RING AT SHELBYVILLE WALKING HORSE CELEBRATION. IN SADDLE IS HIS OWNER, COLONEL JACK HAYNES

THE TENNESSEE WALKING HORSE

FAMED AS EASIEST-RIDING BREED,
IT IS NOW A NATIONAL FAVORITE

Greater Glory, 3-year-old mare, starts famous running walk in which the hind legs take longer stride than the front legs.



The Tennessee Walking Horse, a native American breed, has made its home in the Central Basin of Tennessee, within a 50-mile radius of the city of Shelbyville, for more than a hundred years. It originated in the need of small Tennessee farmers for a multi-purpose animal—one which had sufficient stamina for farm work, which was docile enough for the children to ride to school, and smart-looking enough to lurch up to a buggy on Sundays. Experimentation and cross-breeding of a number of celebrated strains produced a horse which many authorities today consider the easiest-riding saddle horse in existence.

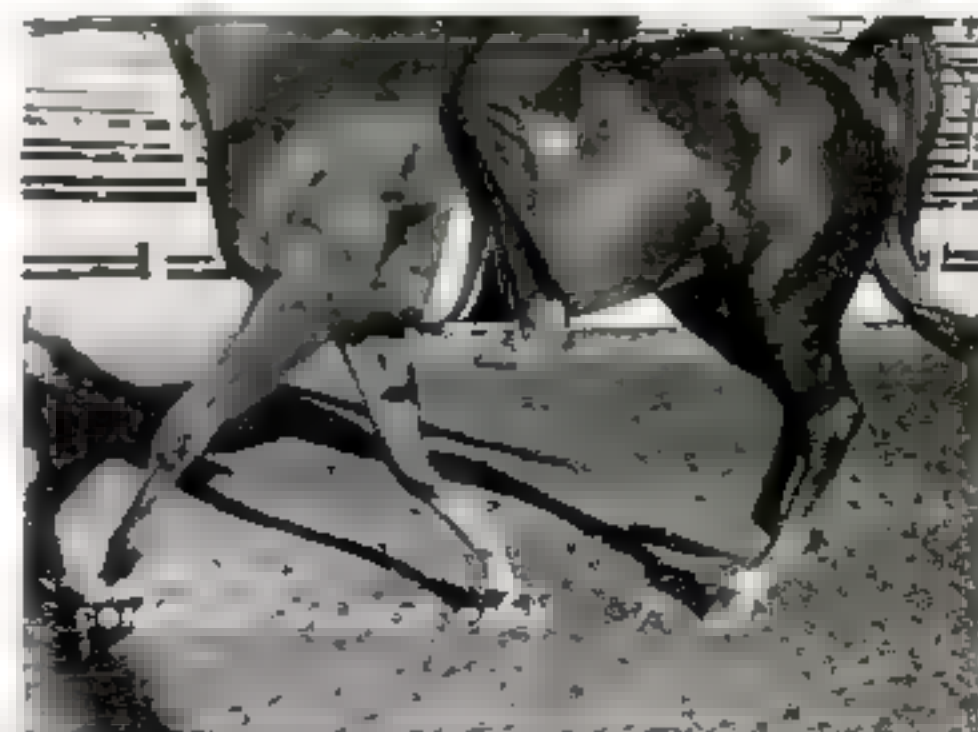
The Tennessee Walking Horse averages around 15½ hands (62 in.) high, and weighs from 1,000 to 1,200 lb. It can be almost any color. It is short in the back, deep in body and chest, with a long, graceful

neck. Its principal characteristic, however, is a gait in which the front feet take relatively short, almost mincing steps while the hind feet take long, graceful strides. The result is an illusion that the hind feet are catching up with the front feet.

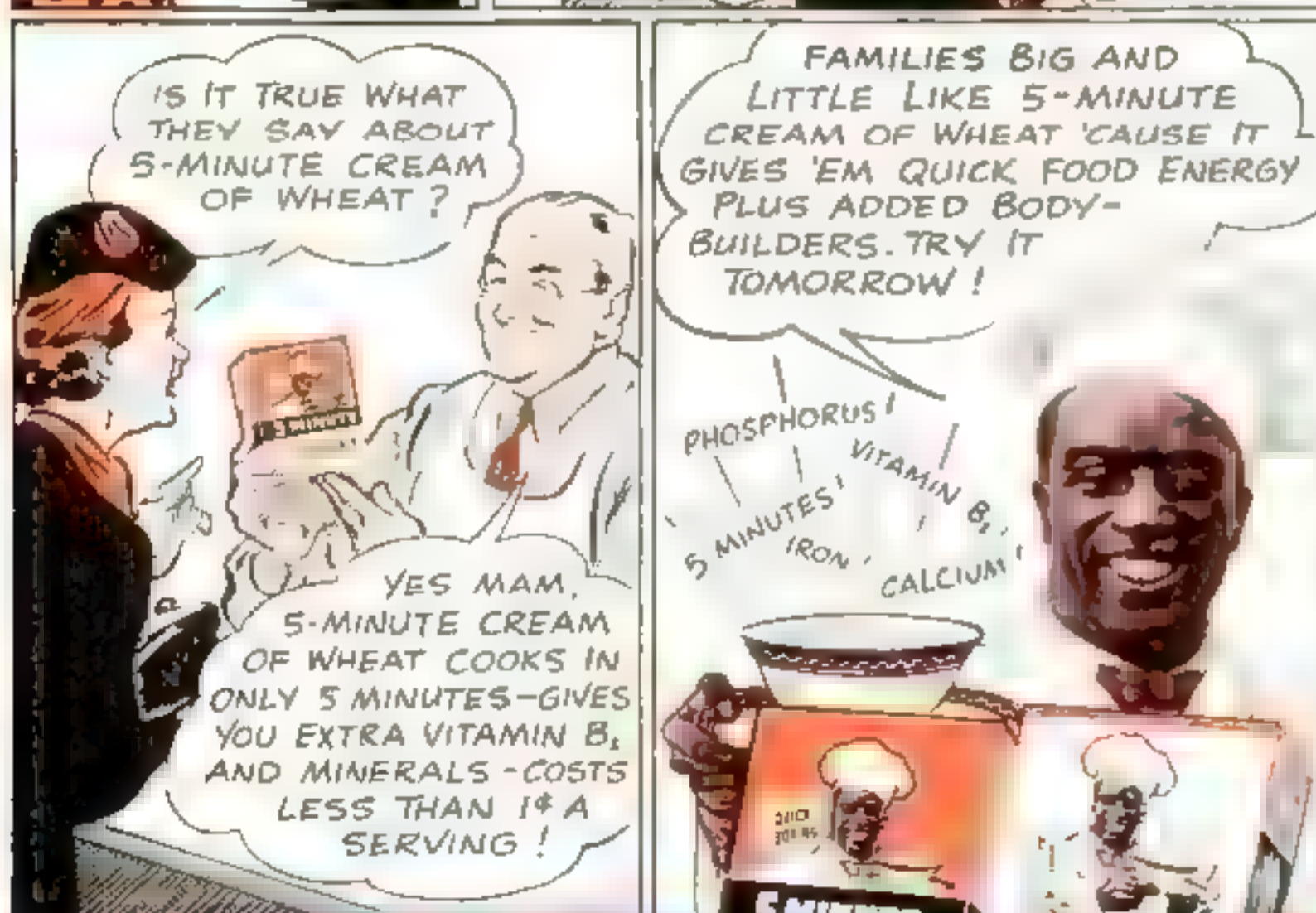
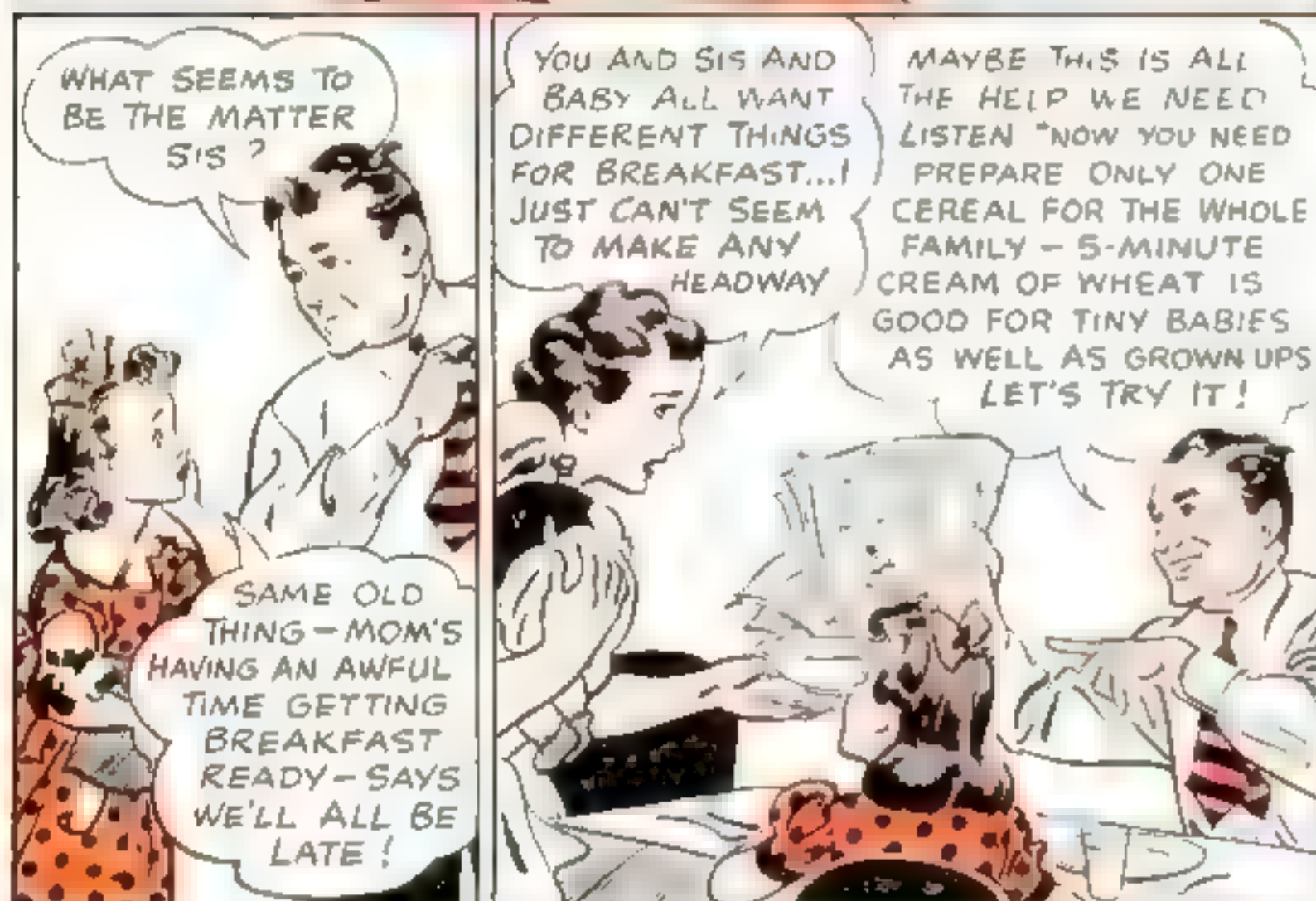


The fame of the Tennessee Walking Horse has spread far from his native pastures. Eleanor Roosevelt, Paul Whiteman and Don Ameche are famous owners. Gene Autry's trick horse, "Champion Jr.," is a Tennessee Walking Horse. To publicize the virtues of the Tennessee Walking Horse even more, breeders last month staged a celebration at Shelbyville with parades, barbecues and a Queen's Ball as sideshows to a super horse show in which 400 Tennessee Walking Horses participated. Ten thousand visitors came from other States. The Tennessee Walking Horse was well on its way to becoming an All American horse.

As speed increases, the horse's left rear foot falls gradually nearer right front foot, overstepping previous front track.



"Mom's cryin' again, Dad..."



AVERAGE OVERSTEP IN TRACKS LEFT BY GREATER GLORY IS 24½ IN. MEASUR.

THE WALKING HORSE HAS THREE UNIQUE GAITS:

In the picture above, two experts examine the tracks left by a champion Tennessee Walking Horse, Greater Glory, of Haynes Haven Stable, Spring Hill, Tenn., to measure the difference between her hind-foot and front foot steps in the running walk. Average step with her front feet was 42 in., with her hind feet 67 in., making an overstep of 24½ in.

In the running walk (6-8 m. p. h.), the Tennessee Walking Horse starts with a diagonally opposed flat-footed movement. As it gains speed the



LEFT
FRONT FOOT

ING ARE PRESIDENT DAVIS OF WALKING HORSE ASSN. AND COL. BILL PARKER

FLAT-FOOT WALK, RUNNING WALK AND CANTER

hind foot oversteps the front track from a few inches up to Greater Glory's 24½ in. This produces a sensation of gliding, considered one of riding's rarest thrills. It is a natural gait.

The Tennessee Walking Horse easily learns from his trainer how to do the slower flat-foot walk, and the faster canter. In the former gait, the horse's diagonally-opposed feet move in unison in a two-measure beat in one-two order. The canter is a "refined gallop" with a rocking chair motion.



Last week Mrs. Tyler's mince pie wasn't much to brag about. ("Her bargain mince meat was nobody's bargain!")



This week Mrs. Tyler spent a few cents more for Borden's None Such and her mince pie is full of honest-to-gosh, old-fashioned flavor!

PUT ON YOUR best eating clothes, it's Borden's None Such Mince pie for dessert... the golden crust fairly bursting at the seams with hearty, old-fashioned flavor!

For Borden's None Such Mince Meat is made the honest, old-fashioned way. With 20 choice ingredients—hand-picked

apples, sun-wrinkled raisins, tart citrus peel, and spices from the far corners of the earth—blended in a New England recipe 56 years old.

So look for the None Such Girl on the bright, red package. It's your guarantee of genuine Borden's None Such Mince Meat... the finest mince meat made!











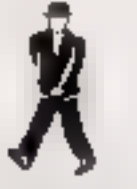






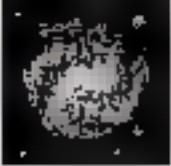

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If it's BORDEN'S, it's got to be good!

MAN HAS TAKEN MEASURE OF ATOMS AND GALAXIES

Shown below is a scale of the dimensions of the universe as so far measured by man. It ranges from the diameter of an atom's nucleus, as the universe's inside dimension, to the distance to the farthest galaxy recorded by astronomers.

	ATOM'S NUCLEUS	$\frac{1}{1,000,000,000,000}$	CENTIMETER
	ATOM'S OUTSIDE DIAMETER	$\frac{1}{100,000,000}$	CENTIMETER
	ELECTRON MICROSCOPE'S LIMIT OF VISION	$\frac{1}{1,000,000}$	CENTIMETER
	FLU VIRUS	$\frac{12}{1,000,000}$	CENTIMETER
	TOBACCO MOSAIC VIRUS	$\frac{1}{1,000,000}$	CENTIMETER
	LIGHT MICROSCOPE'S LIMIT OF VISION	$\frac{1}{10,000}$	CENTIMETER
	RED BLOOD CELL	$\frac{4}{1,000}$	CENTIMETER
	HEAD OF A PIN	$\frac{1}{10}$	CENTIMETER
	CENTIMETER		
	INCH		
	SIX-FOOT MAN	72	INCHES
	NEW YORK TO SAN FRANCISCO	3,000	MILES
	DIAMETER OF EARTH	8,000	MILES
	DIAMETER OF SUN	864,000	MILES
	EARTH'S ORBIT DIAMETER	186,000,000	MILES
	ONE LIGHT YEAR	6,000,000,000,000	MILES
	NEAREST STAR	25,000,000,000,000	MILES
	DIAMETER OF OUR GALAXY	100,000	LIGHT YEARS
	DISTANCE TO FARTHEST OBSERVED GALAXY	300,000,000	LIGHT YEARS



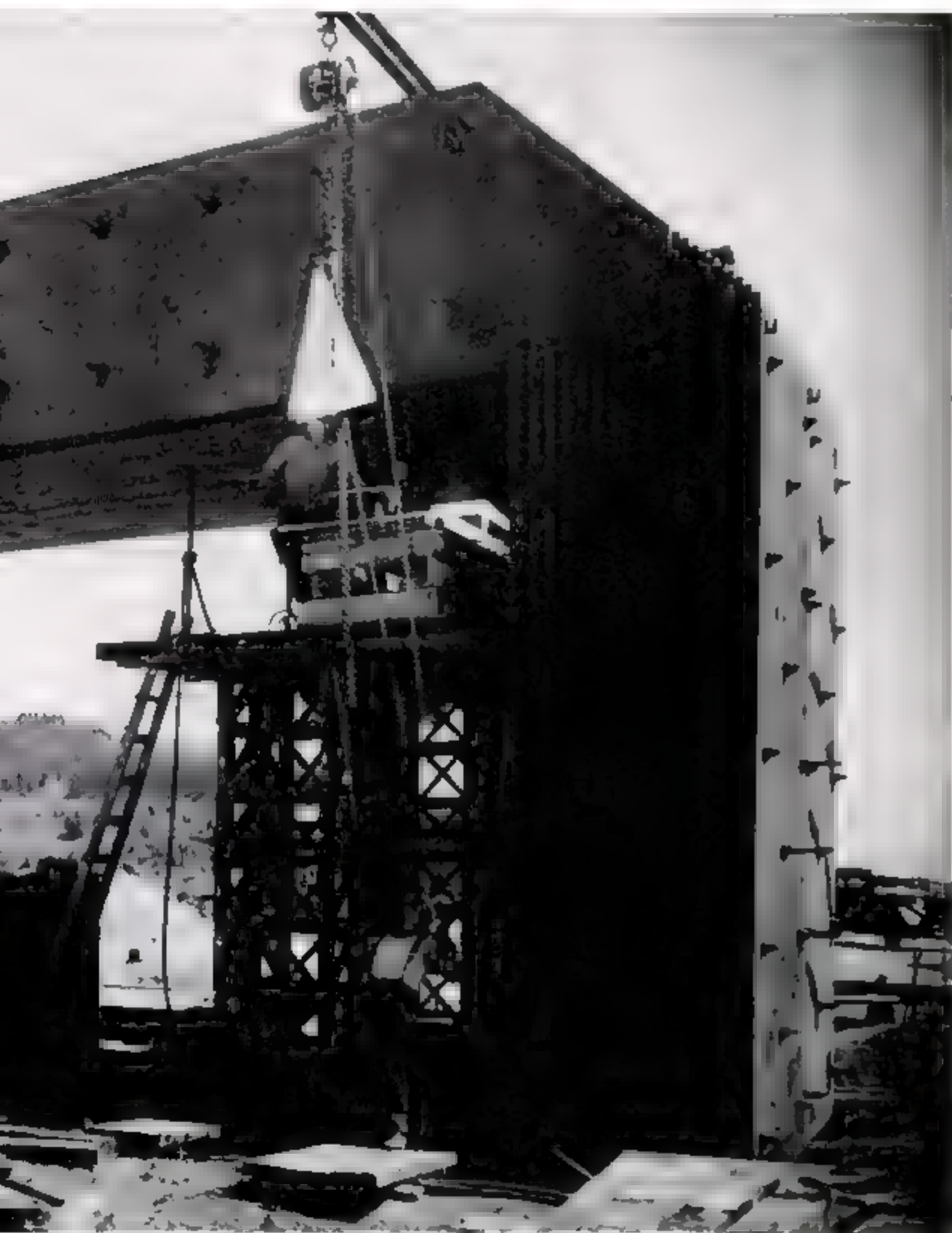
AT UNIVERSITY OF CALIFORNIA, 4,000-TON ATOM-SMASHING CYCLOTRON NEARS COMPLETION.

SCIENCE AND SEARCH FOR KNOWLEDGE ENTERS

For the world of the future, if it is a world of free men, science today holds boundless promise. It is a promise of a surge forward in man's material welfare that will dwarf the technological revolution of the past 150 years. It is grounded, as it must be, in the purest function of science, the extension of man's knowledge of himself and of the nature of the world in which he lives. For most of his existence man's hunger for knowledge has been shackled by fear and superstitious terror. This hunger, never stifled, has been liberated through the triumph of the scientific method only as the last four centuries have brought the rise of man to social freedom. Today, with its tools sharpened by decades of labor and experiment, science stands on the threshold of an era of great conclusions.

In the following eight pages are shown in pictures the research and discoveries that have brought science close to conclusive answers to four ancient questions. Penetrating the four billionths of an inch universe—the inner nucleus of the atom—science is approaching comprehension of the ultimate nature of matter. There it has discovered, and will some day open up, unlimited, fantastic stores of energy to be harnessed for man's purposes. Seeking and gaining a measure of control over some of the most terrible diseases that afflict mankind, yellow fever, infantile paralysis, sleeping sickness, science has discovered the virus and in the virus approaches profounder understanding of the nature of life. In green plants, science is illuminating the final details of the mysterious process of photosynthesis by which plants create the organic combination of hydrogen and carbon on which all life depends. In the firmament, science has discovered a super-universe, whose incomprehensible, measured dimensions bear magnificent witness to the courage and intellect of man, though they dwarf him and his planet to utter insignificance.

In this hour of imminent triumph science is threatened by a terrible perversion of its powers, launched by a dictatorship that denies the freedom by which science lives. To the building of the Nazi war machine, German science, once supreme, particularly in the field of chemistry, gave brilliant service. But its achievements in war engineering have exacted penalties from which German science may never recover. Abruptly halted was the basic enterprise of pure frontier research, in which all tech-



INVENTED BY E. O. LAWRENCE, CYCLOTRONS GIVE U. S. LEAD IN RACE FOR ATOMIC POWER

THE FUTURE

AN ERA OF GREAT CONCLUSIONS

nology finds its ultimate source. German science was degraded by its function as the mouthpiece for such propaganda travesties on scientific theory as Aryan race myths, German atoms and National Socialist relativity. Adulterated, diluted and cut short was the education of a whole generation of German scientists, engineers and physicians. Because of this reckless exploitation of its capital resources, German science must surely wither and with it a chief pillar of German power. Even before the war began, German science by one crucial index, the volume of chemical research publication, had fallen behind the U. S. in ratio of one to eight.

To defend its future, U. S. science has now reluctantly turned its energies to the engineering of war. During the last year Dr. James Bryant Conant's National Defense Research Committee became an arm of the U. S. Government. In the field of physics alone it has mobilized 1,700 graduate U. S. physicists to work on 423 Government research projects, shrouded in the tightest censorship of war. One of these projects is the search for total release of the astronomical energies locked in the atomic nucleus. Until the war is over or until it is, conceivably, successful and it ends the war, this search for the most appalling power ever sought by man for good or evil will be the world's darkest secret. Here again volume will count on the side of free science, with 35 U. S. cyclotrons and high voltage generators against Germany's five atom smashers and the estimated six it has captured in conquered countries.

In the world of the future, science must find wider popular understanding and support. Men must no longer be content to say that only 15 minds can comprehend Einstein's theory of relativity. Its application in the release of atomic energy may one day modify the lives of all people. But more vital to human welfare than any scientific discovery is the scientific method. Its only standard is truth, discovered by controlled experiment and stated by objective reasoning from observed facts. It abhors wishful thinking and derivations from prejudice. It will exchange any number of theories, as it has rended the fabric of Newtonian physics, for the sake of a single, clearly established fact. Above all, science requires freedom and courage to back its expeditions of discovery beyond the frontiers that will always remain.

EACH BRANCH OF SCIENCE HAS ITS OWN VOCABULARY

A careful reading of this glossary of unfamiliar, technical terms will help readers understand the pages that follow. Most of them are new words, invented during the last 40 years, to identify new things and phenomena discovered by science.

ELEMENTS (pp. 76-77) are the basic substances of the universe that cannot be broken down chemically into anything else. Ninety-two elements have so far been isolated, from hydrogen, the lightest and one of the most abundant, to uranium, the heaviest and one of the rarest.

ATOM is the smallest particle of a given element. If disintegrated or altered in structure, as by cyclotron bombardment, it becomes a particle of a different element or isotope.

NUCLEUS is the central core or "sun" of an atom, composed of protons and neutrons. Around it rotate the planetary electrons. Energy that holds nucleus together is what science seeks to extract by atom-smashing.

PROTON is one particle of the matter-energy that constitutes an atom's nucleus. It carries a positive electrical charge. The number of protons in its nucleus gives an atom its chemical identity.

NEUTRON is another particle of the matter-energy that constitutes an atom's nucleus. It has a weight approximately equal to the weight of a proton, but it carries no electrical charge.

ELECTRON is a particle of the matter-energy that constitutes an atom. It has 1/1,800th the weight of a proton and carries a negative charge. It rotates in a planetary orbit around an atom's nucleus, held in stable attraction by the opposite charge of the protons in the nucleus. In a given atom the number of electrons is always equal to the number of protons.

POSITRON is the particle of matter-energy emitted by an unstable atom's nucleus when a proton loses its positive charge and is converted into a neutron. Its weight is equal to that of an electron, and it carries a positive charge. Several other kinds of particles are emitted by unstable atoms.

ISOTOPE is one of two or more chemically identical substances which make up the total bulk of an element. The atom of one isotope has the same number of protons in its nucleus as the atom of another isotope of the same element. It differs, however, physically from its chemical twins in having a greater or lesser number of neutrons. This has important bearing on its physical qualities. For example, lead has eight isotopes, hydrogen three.

DEUTERON is atom nucleus of "heavy hydrogen," a stable, but rare, isotope of hydrogen. Like simple hydrogen, heavy hydrogen has a single proton in its nucleus. But unlike simple hydrogen, its nucleus also has a neutron.

MOLECULE is the smallest particle of any given chemical combination of atoms. The molecule of water, for example, has one oxygen atom linked to two hydrogen atoms. Lacking any one of these atoms, it would cease to be a molecule of water. Linkage between atoms is established by their electrons.

VIRUSES are a large group of disease-producing substances lying in the boundary between living cells and non-living chemical molecules. Their simplest unit is a single molecule. Viruses range in size from visibility limit of light microscopes to the present lower limit of electron microscopes (see chart at left). They are obligatory parasites in absence of a host and are able to reproduce only when within specific living cells. They are the cause of a large number of infectious diseases afflicting animals and plants.

CELL is the basic living structure, composed of a mass of protoplasm, enclosed in a delicate membrane and enclosing a differentiated central body called a nucleus. Some cells exist independently, others are organized in tissues and organs of the higher forms of life.

CHROMOSOMES are rod-shaped bodies within a cell's nucleus which carry hereditary characteristics. In cell reproduction, chromosomes split lengthwise, half of each going into nuclei of new cell.

CHLOROPHYLL (pp. 80-81) is the green pigment in plants which acts as the chemical catalyst in the linking of hydrogen and carbon atoms to form carbohydrate molecules. These molecules are the major chemical constituent of all living cells and of all organic chemicals, and they are produced only through the agency of chlorophyll.

DIATOMS are single-celled free-floating water plants each containing a particle of chlorophyll, which provide the basic support of all the swarming life in oceans, lakes, rivers and ponds.

GALAXY (pp. 82-83) is the name now applied to the vast spiral-patterned, disk-shaped congregations of stars that populate the comparatively void space of the universe. It is applied also to the Milky Way, which is what we are able to see of our galaxy from inside.

NEBULA is a cloud of stellar material. A number of nebulae in our galaxy have been identified as remnants of supernovae observed in mid-explosion by astronomers centuries ago.

SUPERNOVA is the term applied to rapidly expanding and exploding stars which have been observed occasionally in our galaxy and in other galaxies. Last supernova in our galaxy was in 1604 A.D.

LIGHT YEAR is an astronomical space unit. It is the distance traveled by light in one year at speed of 186,000 miles a second. This totals 6,000,000,000,000 miles.



OXYGEN ATOM

Diagram of oxygen atom, scaled on enlargement of its nucleus to a diameter of 1,500 ft., shows the diameter of outer electron orbits spanning width of the U. S. Actual diameter of the outer

electron orbits is $4/1,000,000,000$ of an inch. Actual size of the nucleus is $1/10,000$ of that incomprehensible fraction. The comparatively vast space between nucleus and electrons is empty

except for the energy that holds system in balance. As in all atoms, the first two electrons spin in orbits near nucleus. Additional electrons form symmetrical clouds at successive intervals.

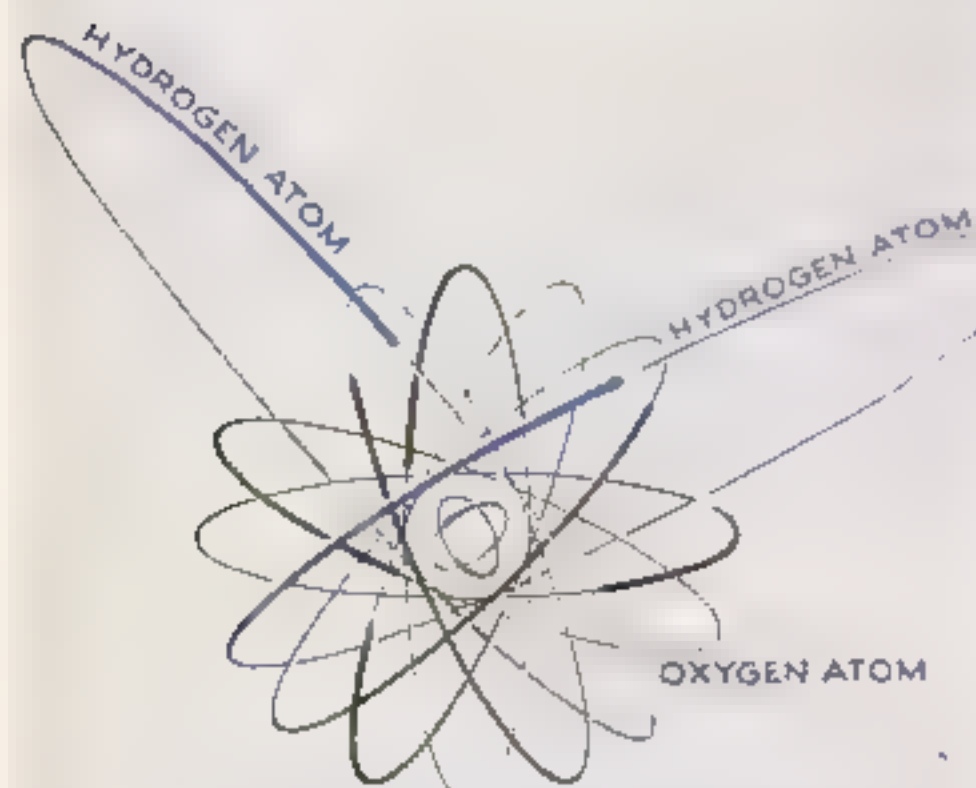
THE ATOM

The atom is the smallest particle of each of the elements that compose the universe. Shown here is an atom of the familiar element oxygen as conceived by modern physics. It is a typical atom because all atoms of all elements are very much alike. Though in chemical qualities oxygen differs vastly from, say, iron, their atoms and the atoms of all elements differ in construction only in being made of more of or less of the same essential stuff. That stuff is energy, of which matter as we know it is only one transitory state.

The oxygen atom is a solar system of particles of this energy-matter. Its "sun" is its nucleus, a swarm of 16 particles of energy-matter. Eight of these are protons, each with a positive electrical charge, and eight of them neutrons, with no charge. Oxygen thus has a weight of 16 and a charge of eight. Around the nucleus in symmetrical orbits spin eight planetary electrons, each having one negative charge and comparatively little weight.

The electrons, their number fixed by the oppositely charged protons, make the direct contact with other atoms and thus establish the atom's chemical activity. The neutrons, however, can and do vary in number without affecting the electron count or the chemistry of the atom. Atoms which thus vary are called isotopes of a given element.

From the oxygen atom the iron atom differs only in having 26 protons and 30 neutrons in its nucleus and a 26-electron cloud. Though they have not transmuted iron into oxygen, physicists have proved this picture of the nature of matter by transmuting, among others, mercury into gold, sodium into magnesium and lithium into helium, simply by rearranging their constituent particles of matter-energy. In doing so physicists have proved also that matter is only a state of energy. In the process of converting lithium into helium, for example, a small amount of the weight vanishes. It passes from the matter state into energy, with a discharge of 17,000,000 electron volts. This is atomic energy which, when extracted and harnessed on a large scale, will have incalculable impact on human destiny.



WATER MOLECULE (H₂O)

Water molecule shows how electrons establish chemical bonds between atoms. Single electron of each hydrogen atom spins in orbit enclosing its own one-proton nucleus and the oxygen nucleus.

MAN AND NATURE BOTH SMASH ATOMS

Atomic explosions, with attendant transmutation of elements, are no new thing in nature. Supernovae, occasionally observed in the heavens, are explosions of the billions of tons of matter in vast stars into apocalyptic discharges of pure energy. The sun itself radiates the energy of a cyclic transmutation of hydrogen into carbon.

Most common atomic transmutation occurring spontaneously on earth is that of radium. On the table of elements at right, unstable radium 88, with 88 protons and 138 neutrons in its nucleus, is shown radiating 0 protons and 14 neutrons and transmuting into lead. During this 1,600-year process of transmutation, radium every hour converts a tiny fraction of its weight into enough energy to boil its total weight in water.

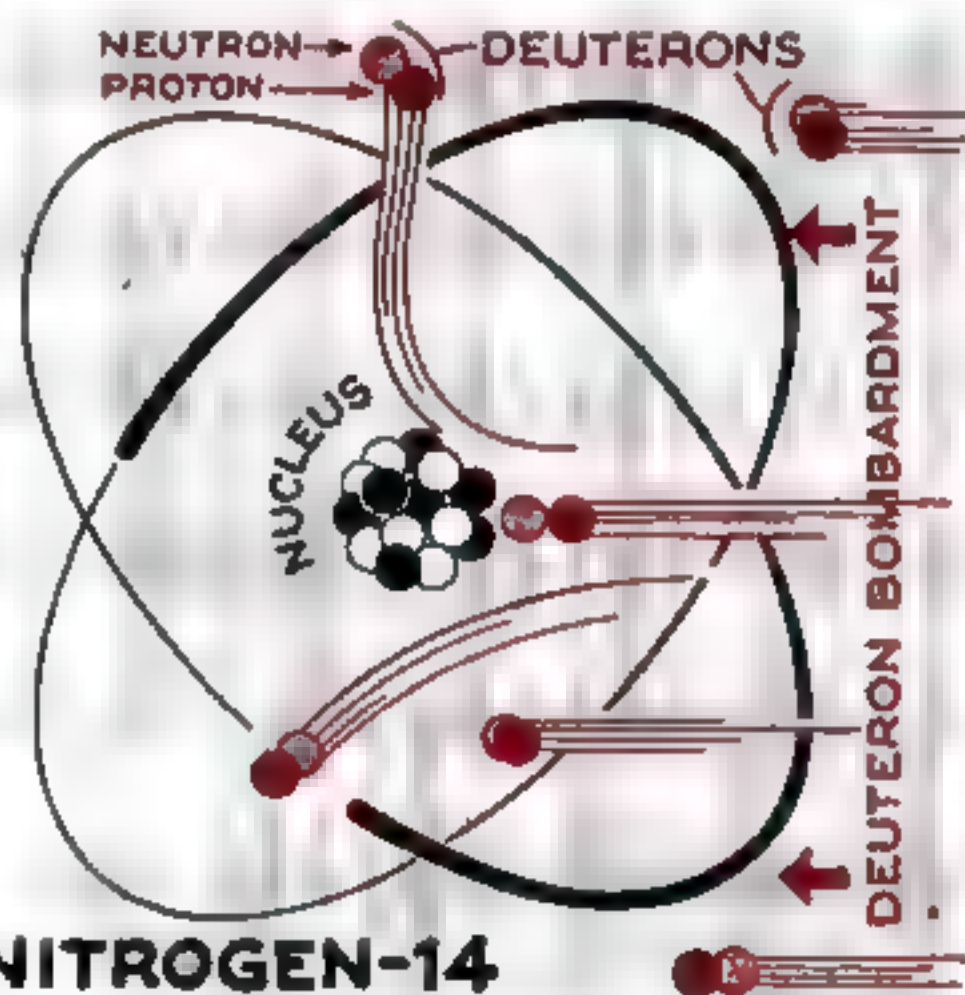
To induce this same conversion of matter into energy in the atoms of more stable elements, the physicist bombards them with the nuclei of lighter atoms. Shown below is such an operation in a cyclotron, in which stable nitrogen 14 is bombarded with deuterons, the nuclei of heavy hydrogen, each composed of a proton and a neutron. The resulting union of nitrogen 14 and the deuteron particles starts a transmutation, which is accompanied by the conversion of two tiny particles of matter into 1,000,000 electron volts of energy. Waiting in every atom for discovery of a method of large-scale atom-smashing are fantastic stores of energy. In a glass of water this amounts to 1,000,000,000 kilowatt hours, enough to light and operate New York City for two months.

	206	207	208	209	210	211	212	214	215	216	218	219	220	222	223	226
TELLURIUM 81					81											
LEAD 82	82	82	82		82	82	82	82								
BISMUTH 83				83	83	83	83	83								
POLONIUM 84				84	84	84	84	84	84	84	84					
UNSTABLE 85																
RADON 86											86	86	86			
UNSTABLE 87																
RADIUM 88															88	88

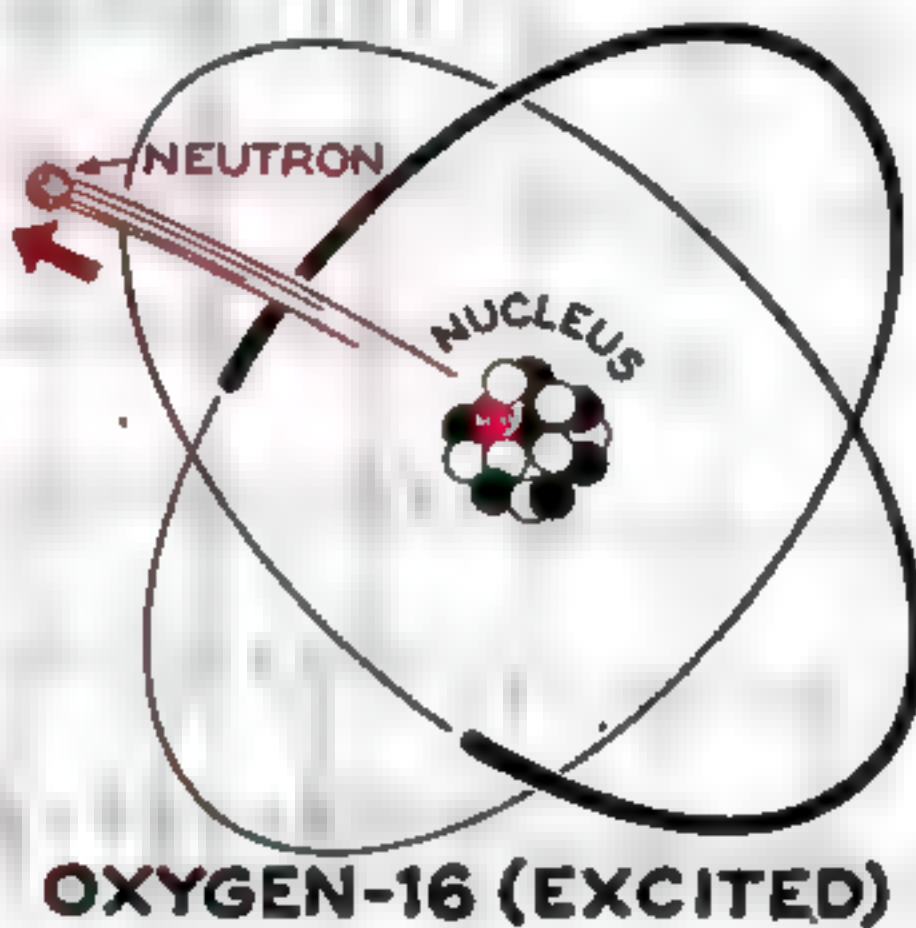
Time intervals marked on arrows indicate half-life of elements; i. e.: time in which half the atoms of an element undergo the particular transmutation. In the transmutation of one radium atom to one lead atom a small fraction of its weight turns into 33,000,000 electron volts of pure energy.

How radium is transmuted into lead is traced by red arrows in section of table of elements. Time intervals marked on arrows indicate half-life of elements; i. e.: time in which half the atoms of

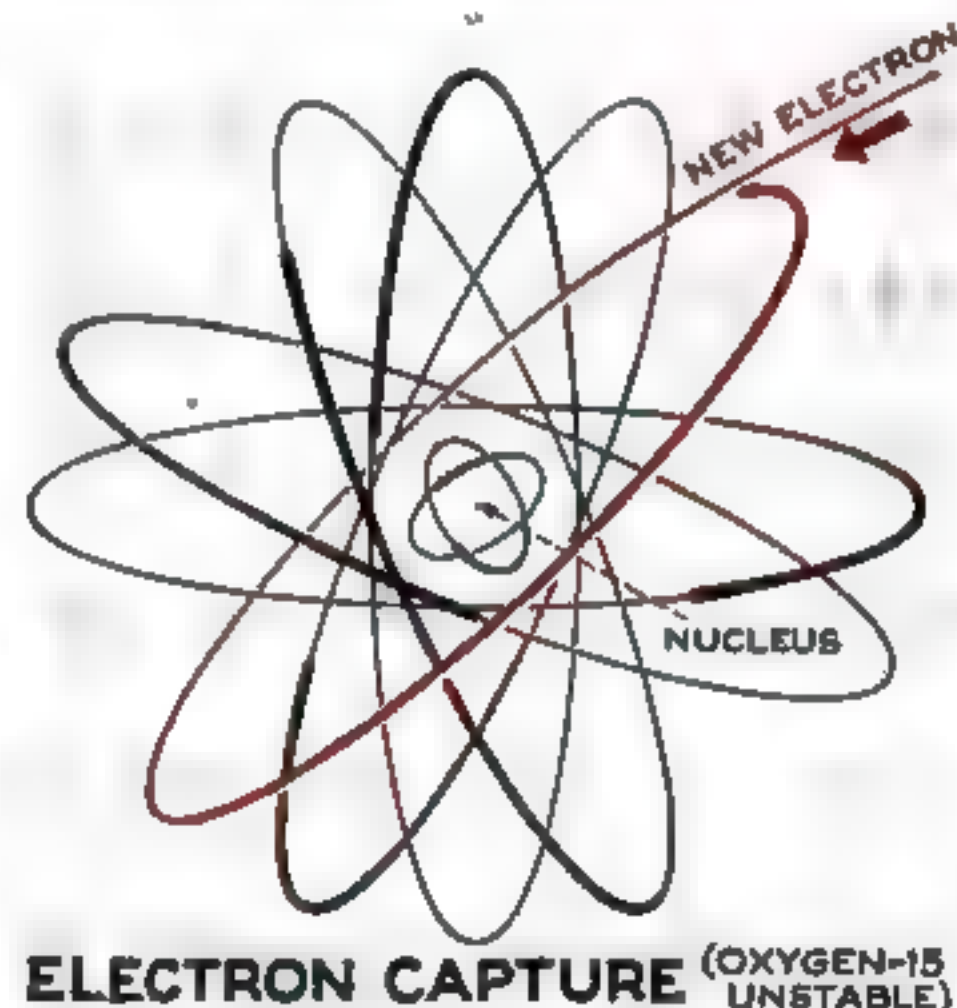
an element undergo the particular transmutation. In the transmutation of one radium atom to one lead atom a small fraction of its weight turns into 33,000,000 electron volts of pure energy.



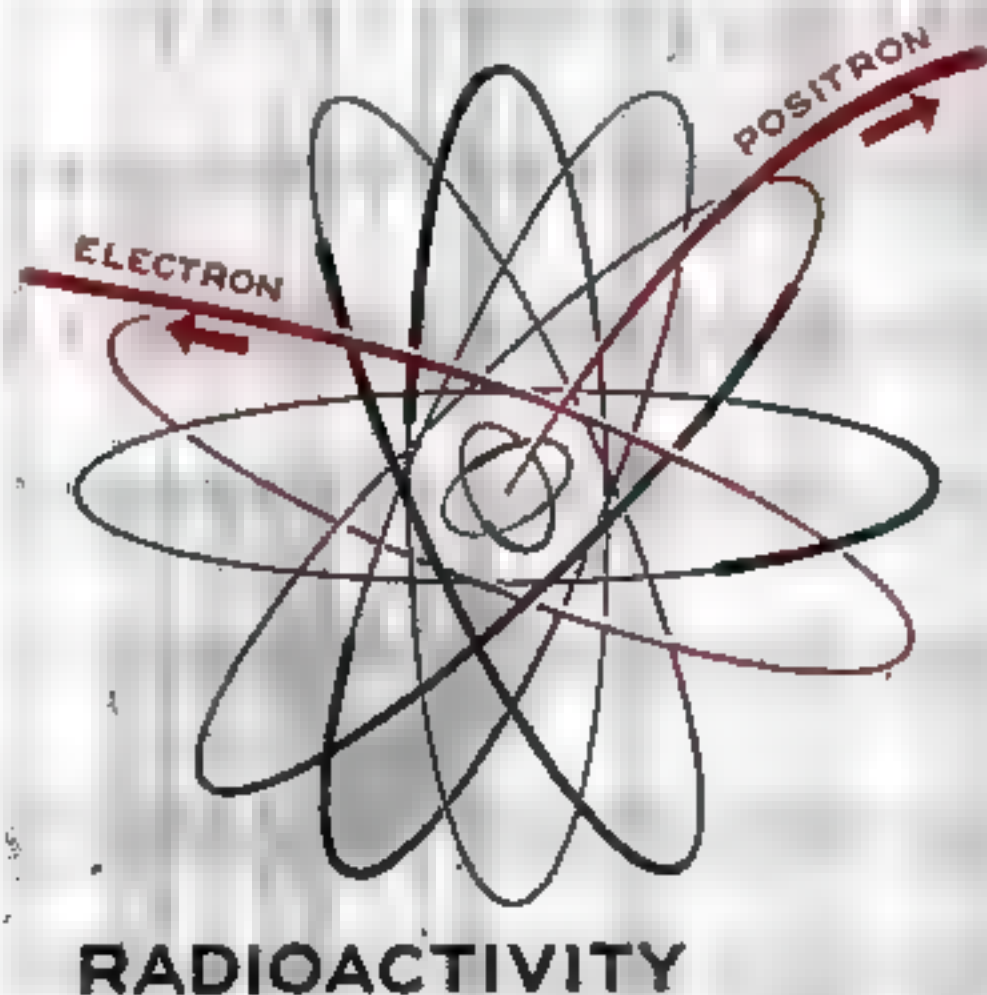
Nitrogen atom nucleus with 7 protons (black) and 7 neutrons (white), shown close up inside outer electron cloud, is bombarded with deuterons. One deuteron penetrates into nucleus.



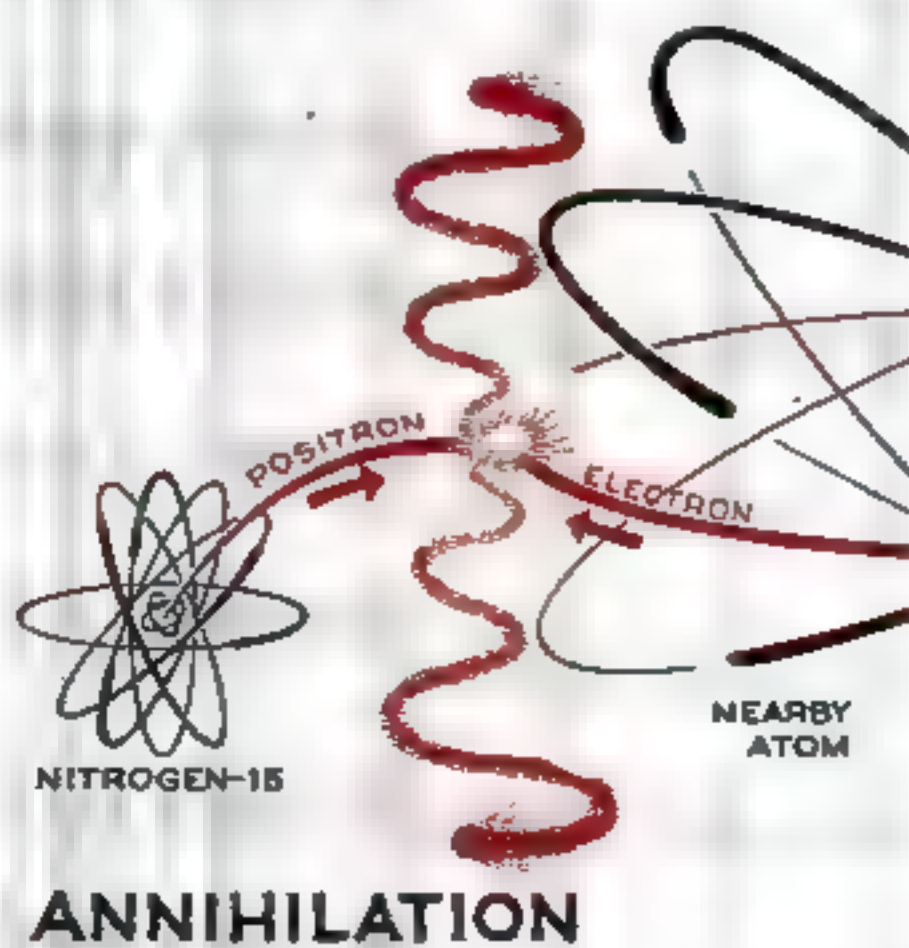
Nitrogen is transmuted momentarily into oxygen 16, with addition of deuteron's proton and neutron. Surplus kinetic energy of two new particles makes atom unstable. Neutron escapes.



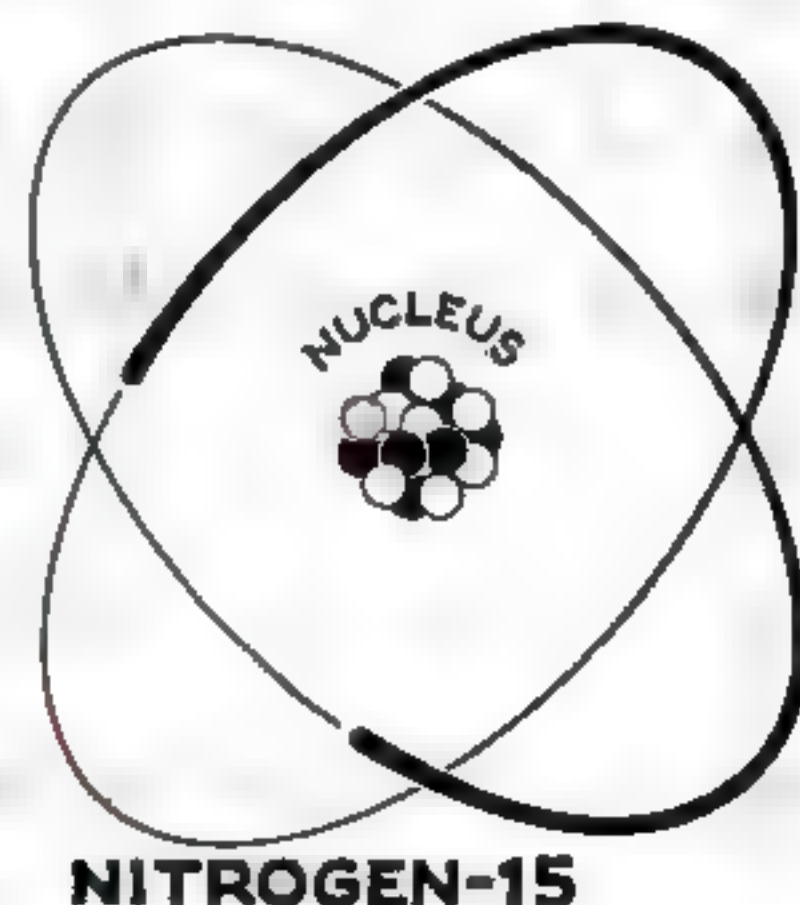
Electron is captured by atom (shown with outer electron cloud) to balance extra charge of proton added by bombardment. With 8 protons and 7 neutrons, atom is now unstable oxygen 15.



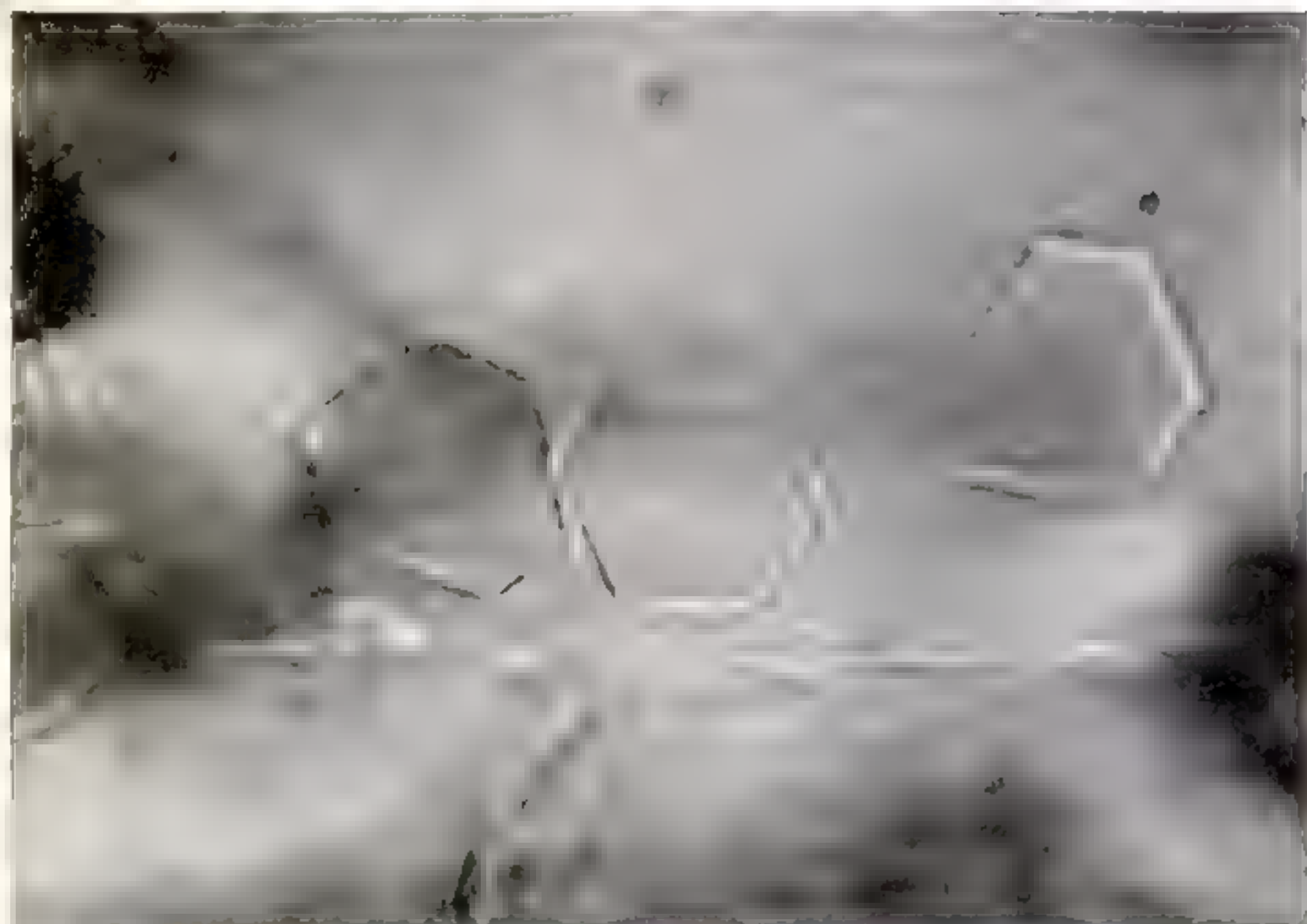
Positron is emitted as one of unstable atom's protons loses electrical charge and becomes a neutron. Atom is now nitrogen 15, with 7 protons and 8 neutrons, and loses extra electron.



Matter turns into energy as positron collides with electron of nearby atom. The two particles, though they have little weight, are annihilated in the discharge of 1,000,000 electron volts.

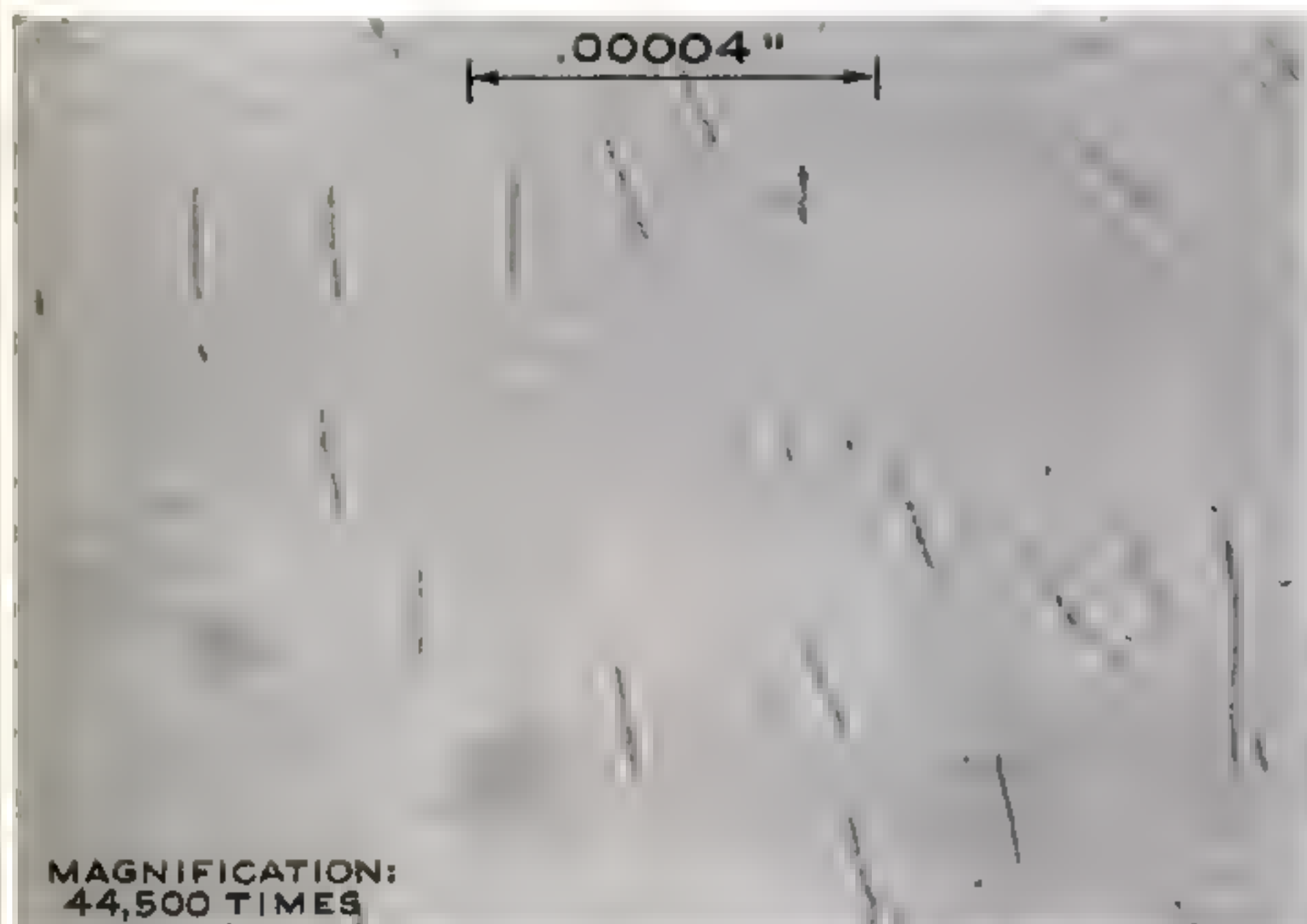


Transmuted atom, shown again close up, has 7 protons, which identify it as nitrogen, and 8 neutrons which make it nitrogen 15, a stable isotope which makes up 3% of world's nitrogen.



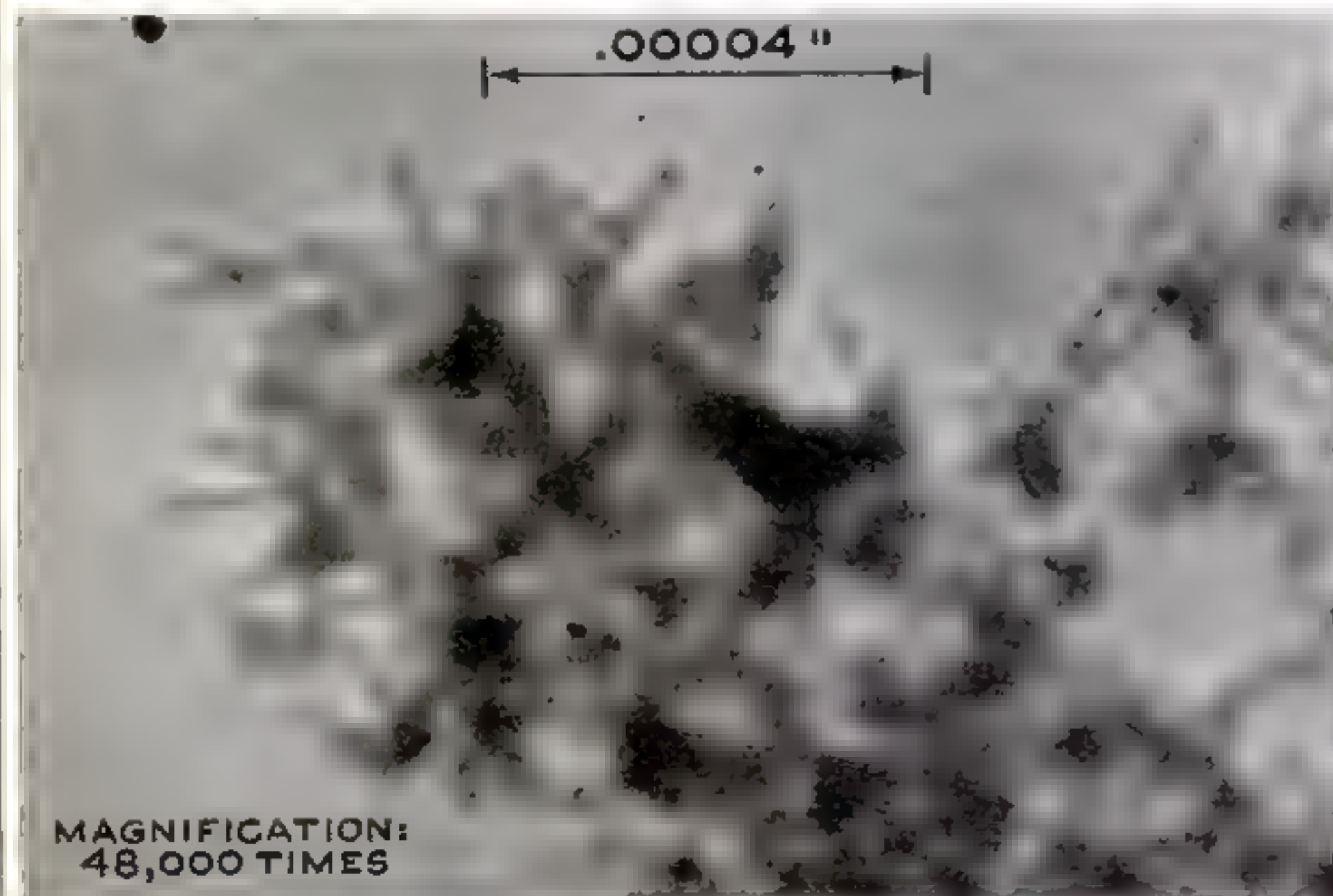
Tobacco mosaic virus appears here in its active state in the form of hexagonal crystals inside a living plant cell. In the cell also is a host of individual virus molecules

which are visible only under an electron microscope, as shown below. The viruses disrupt their host cells by reproducing themselves out of their host cells' substance.



The individual molecules of tobacco mosaic virus are the tiny rods shown here in an electron microscope picture. Shown below is the inactivation of these rod-shaped

virus molecules by the action of an anti-serum produced by inoculation of the virus into a rabbit. A very similar mechanism fights virus infections in a human body.



MAGNIFICATION:
48,000 TIMES

THE VIRUSES

THEY NARROW GAP BETWEEN MOLECULE AND LIVING CELL

The viruses are a strange order of substance that bridge and obscure the once sharply defined boundary between the living cell and the non-living chemical molecule. The cause of some of the most common diseases afflicting mankind, including influenza, infantile paralysis and sleeping sickness, and a host of other diseases afflicting animals and plants, viruses now seem to hold the key to genetic changes in the reproduction of living cells, to the origin of cancer cells, and to the very nature of life itself. First virus to be isolated in pure form and thus to be subjected to direct laboratory examination is the virus that causes the mosaic disease in Turkish tobacco plants. Tobacco mosaic virus was first isolated in 1935 at the laboratories of the Rockefeller Institute for Medical Research at Princeton, N. J.

In the absence of living cells, tobacco mosaic virus is an inert molecule. Introduced into the cells of a tobacco plant, tobacco mosaic virus molecules undertake one of the prime functions of living things, the process of reproduction. They soon permeate the cells of their host and can be extracted from the plant in quantity. This strange existence as an obligatory parasite it shares with all viruses, which are active only in the special environment provided by the cells of a specific host. Some viruses infect only a single species of animal or plant. Some follow a cycle transfer from one host to another, infecting only a special type of cell in each.

The middle picture at left is a group portrait of tobacco mosaic virus molecules taken under an R. C. A. electron microscope. They have a distinct and characteristic size and shape. Because of their shape, they produce in solution the phenomenon of stream-line refraction, shown in color opposite.

Chemically, many viruses are nucleoproteins, very similar in substance to chromosomes, which in the nuclei of living cells control the transfer of hereditary characteristics. By chemical treatment, temporary mutations have been induced in tobacco mosaic virus. This suggests a new means for producing useful strains in other viruses for fighting virus infections, like the useful strain of cow pox virus, produced in infected cows, which "vaccinates" humans against small pox. Further study of virus variations may illuminate the broader problems of genetics and the specific problem of the genetic mutation that takes place when normal cells turn into ravaging cancer cells.

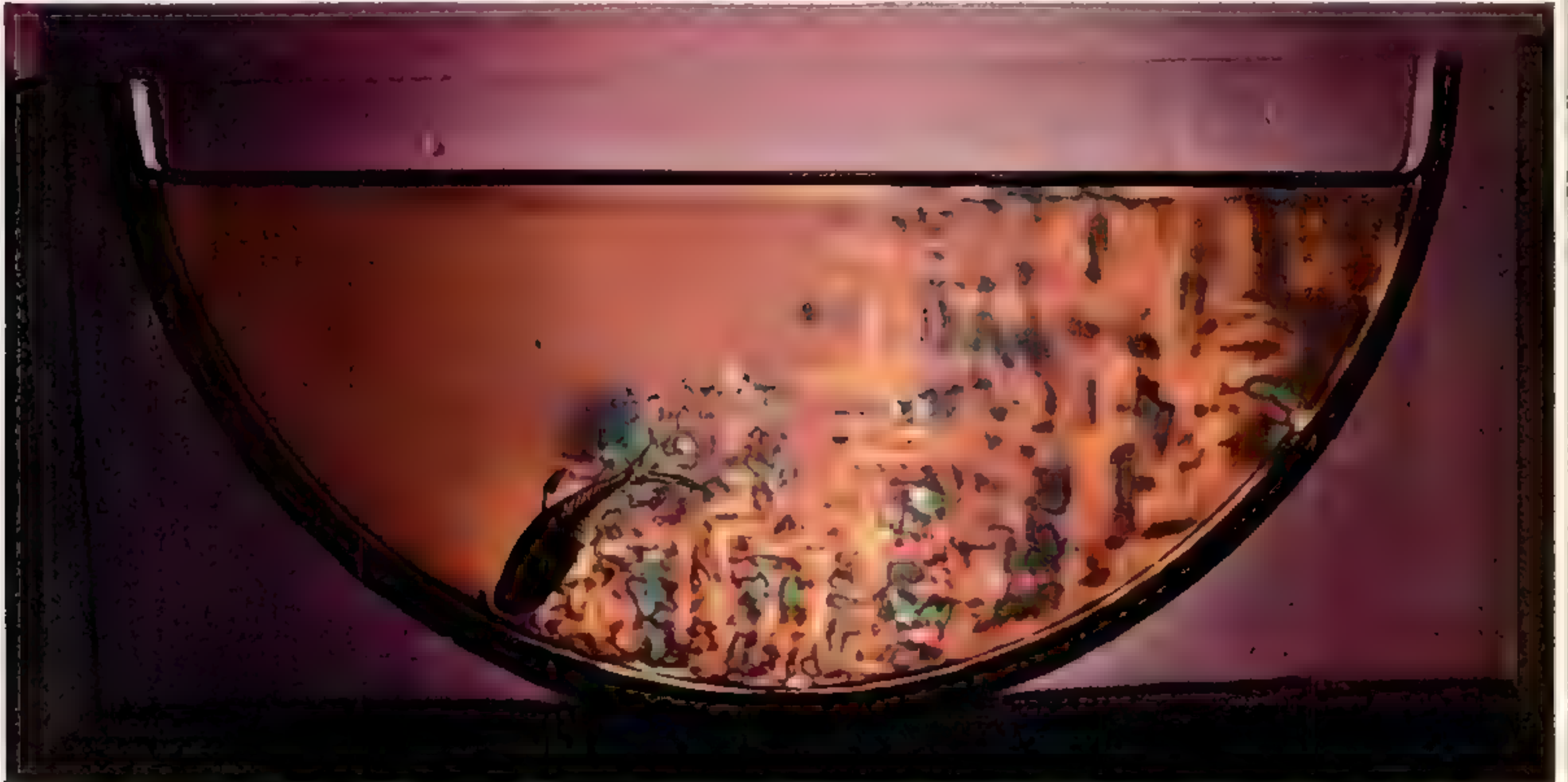
Virus research reaches into even more profound problems. By exposure to ultra-violet rays and by admixture of alkalis and formaldehyde, tobacco mosaic virus molecules have been inactivated, their ability to reproduce destroyed, without alteration of their characteristic shape or size. Some of the virus molecules thus inactivated have then been reactivated, their ability to reproduce restored, by further chemical treatment. This feat is the nearest that science has come to laboratory synthesis of that ill defined state of matter called life.



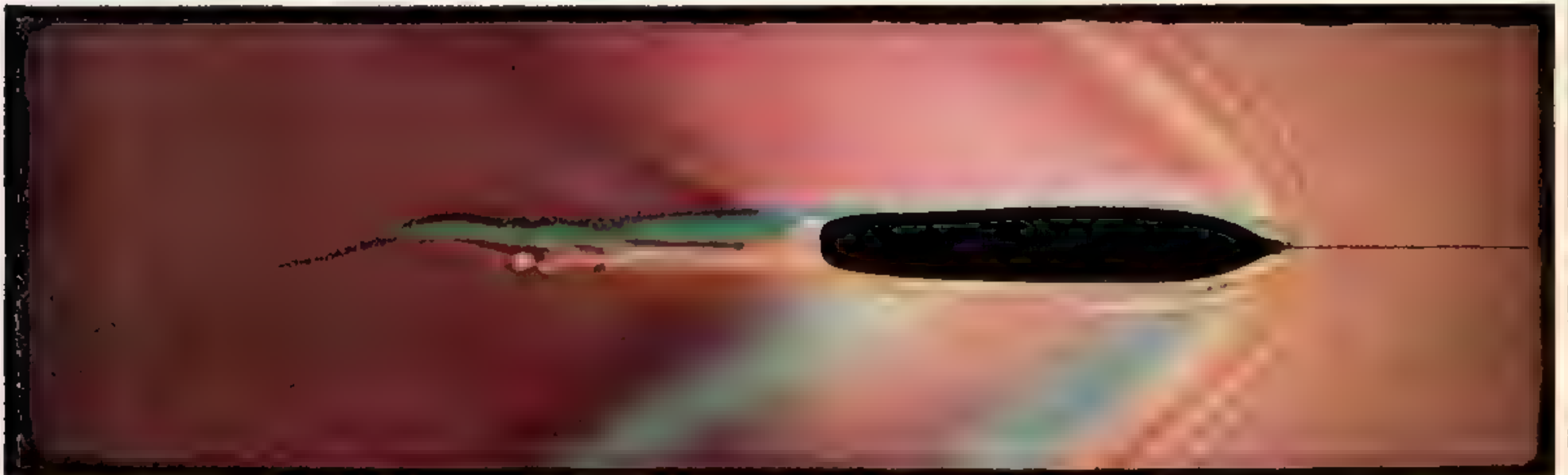
Sick tobacco plant shows mottling produced by tobacco mosaic virus. From such sick plants the virus is easily extracted in quantity for laboratory study.



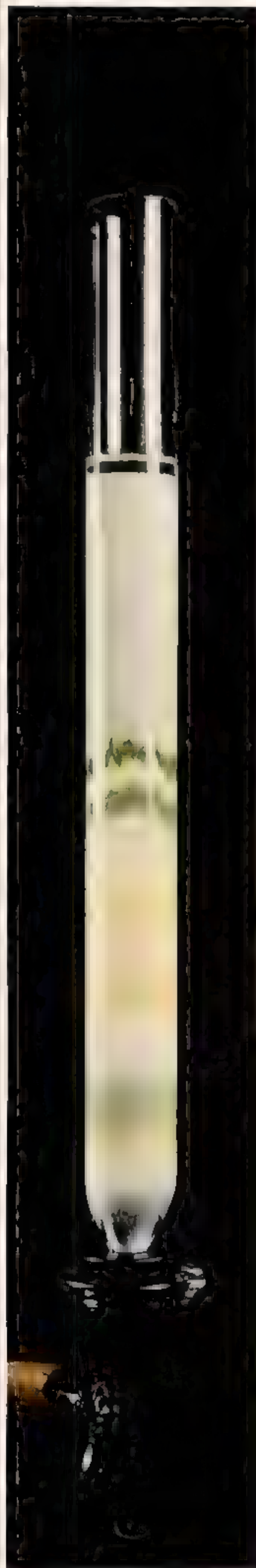
TURBULENT WAKE OF FISH SWIMMING IN TOBACCO MOSAIC VIRUS SHOWS, UNDER POLARIZED LIGHT, IN COLOR PATTERNS OF REFRACTED LIGHT. POLARIZING MEDIUM IS POLAROID "H."



REFRACTION PHENOMENON, HERE BRILLIANTLY SHOWN, IS DUE TO ROD SHAPE OF VIRUS MOLECULES, WHICH LIE AT RANDOM AND, WHEN DISTURBED, FORM PATTERNS LIKE LOGS IN A STREAM



OF INTEREST TO MARINE ARCHITECTS: BOW WAVES, SIDE FRICTION AND STERN TURBULENCE, INVISIBLE IN WATER, SHOW IN BRIGHT COLORS AS SHIP MODEL MOVES THROUGH VIRUS FLUID



Chlorophyll in color column shows as green bands. Yellow band is carotene.



Grown in darkness, normal and albino corn plants are equally colorless, lack vitality and lie out long and stringy. Albinos can be obtained by breeding.



Exposed to light, normal plants turn green, grow quickly, showing that green chlorophyll is functioning chemically. Albinos, white, languish.



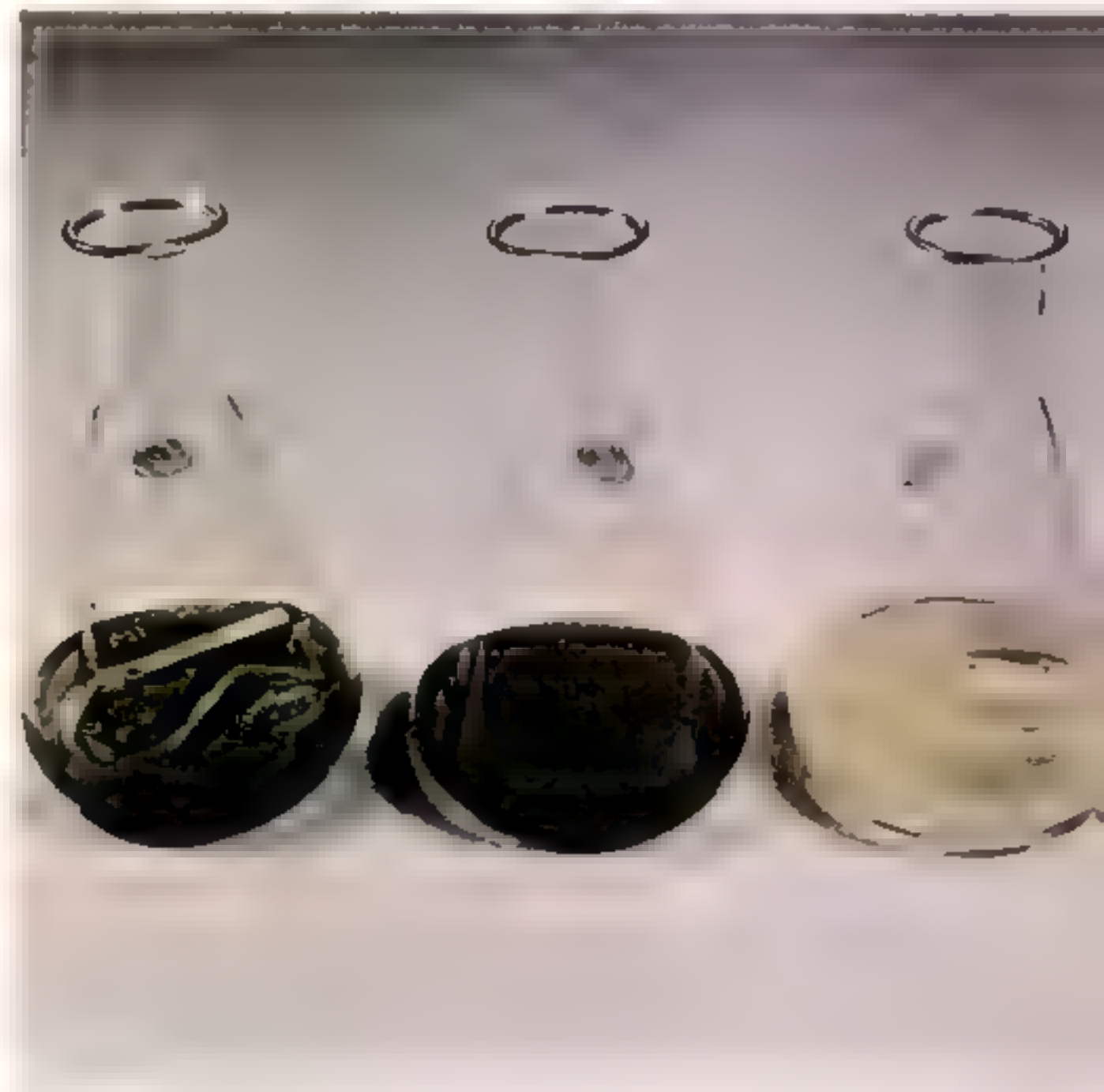
Grown in light, albino and normal corn plants develop equally fast for about two weeks. In this period, both depend for nutriment on starch in corn kernel.



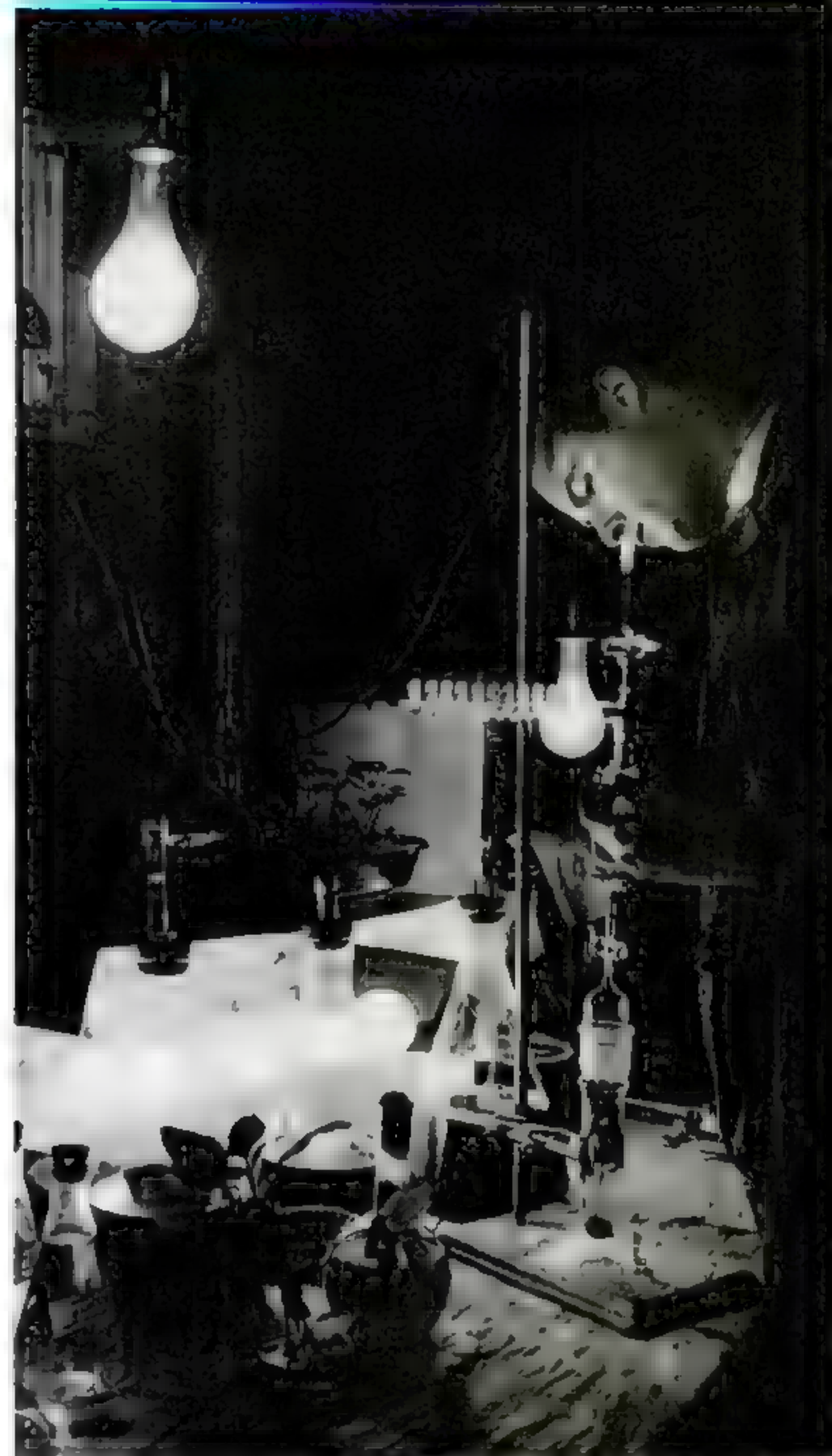
Albinos wither when seed nutriment is exhausted. In normal plants chlorophyll and light are synthesizing starch out of CO_2 and water.



Root system of normal green plant, with chlorophyll synthesizing essential starches, shows full development. Albinos' roots are scanty.



Chlorophyll is separated from plant material (left) by immersion in alcohol solution. In the center is chlorophyll solution. Albinos (right) yield no chlorophyll.



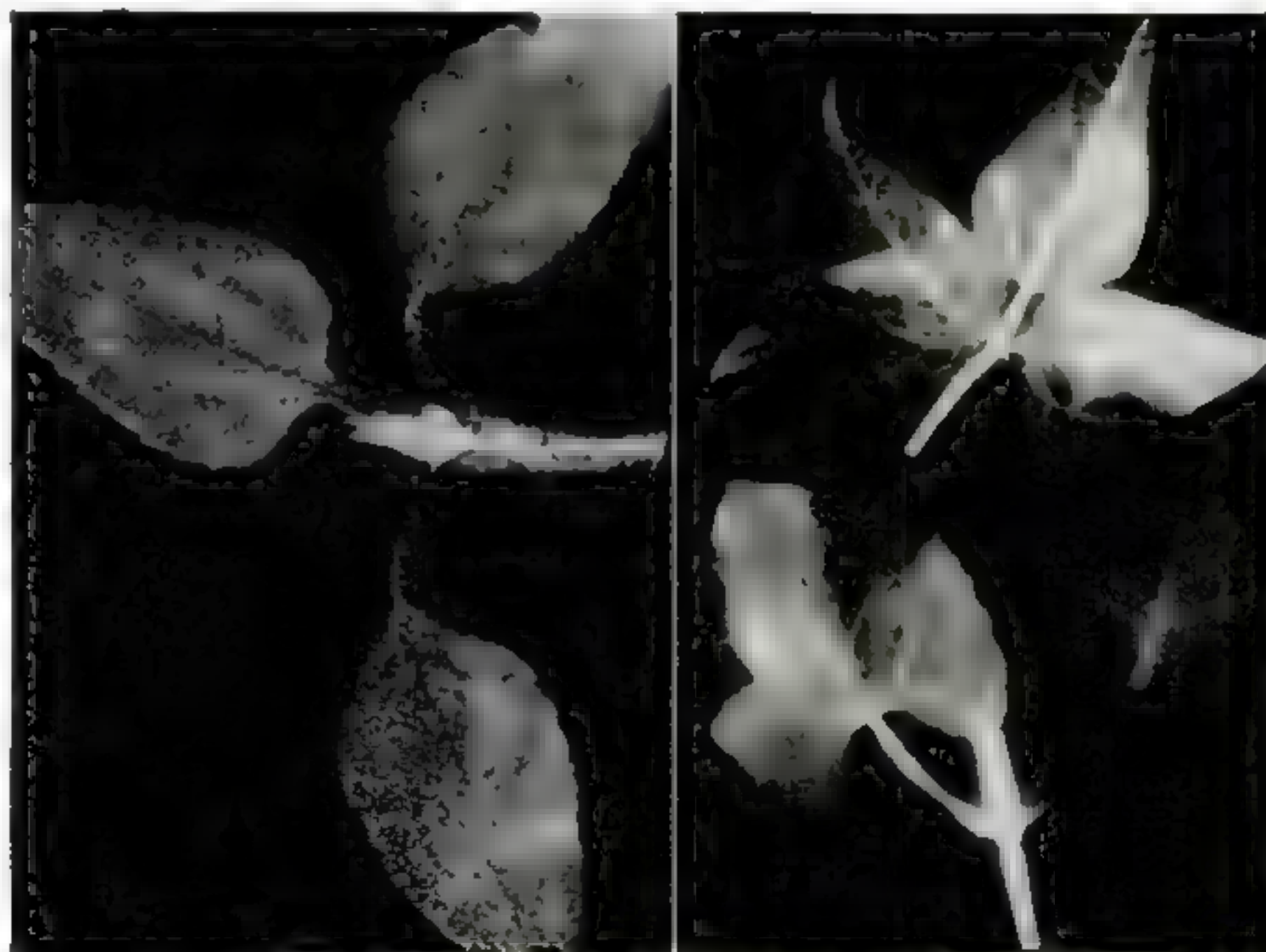
Radioactive carbon dioxide gas brought from cyclotron in vessel (left) is released into spiral glass tube (right) from which it will be fed to plants. Carbon atoms lose major radioactivity in 20 min.

Photosynthesis takes place in a small sunflower plant in the sealed glass tube at right. Plant breathes radioactive carbon dioxide fed in from spiral tube. Electric bulbs substitute for sun.

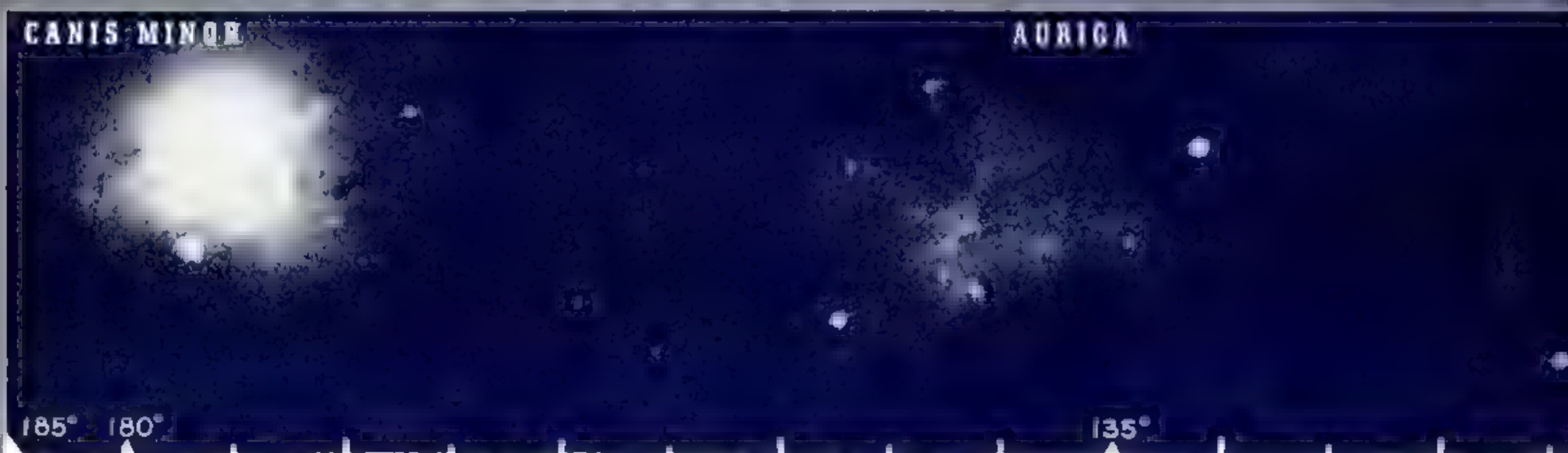
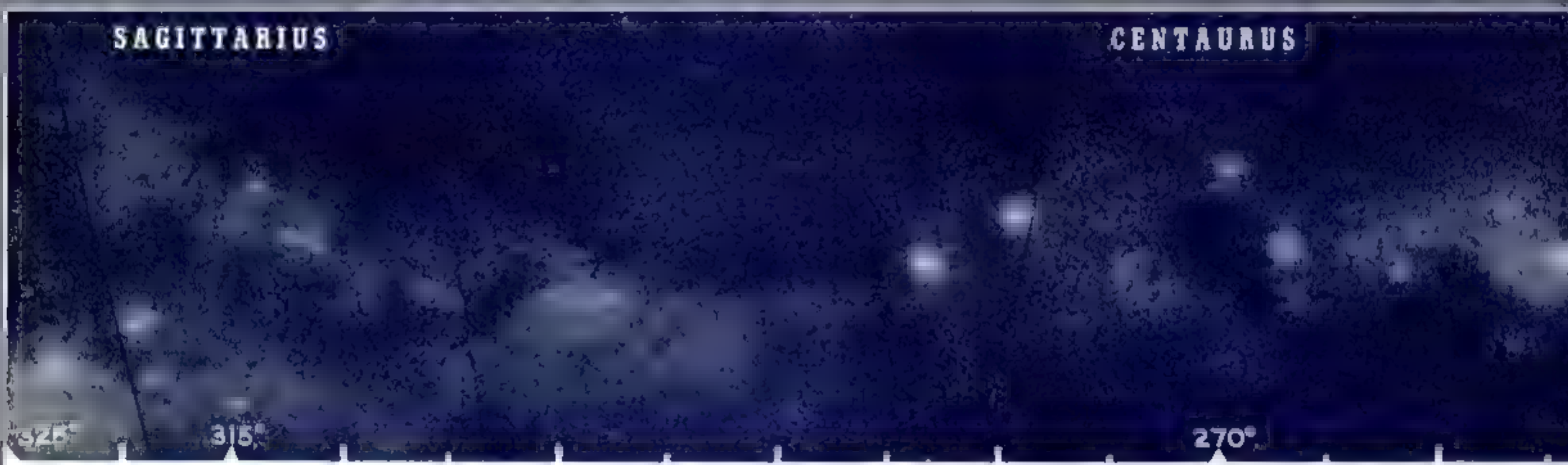
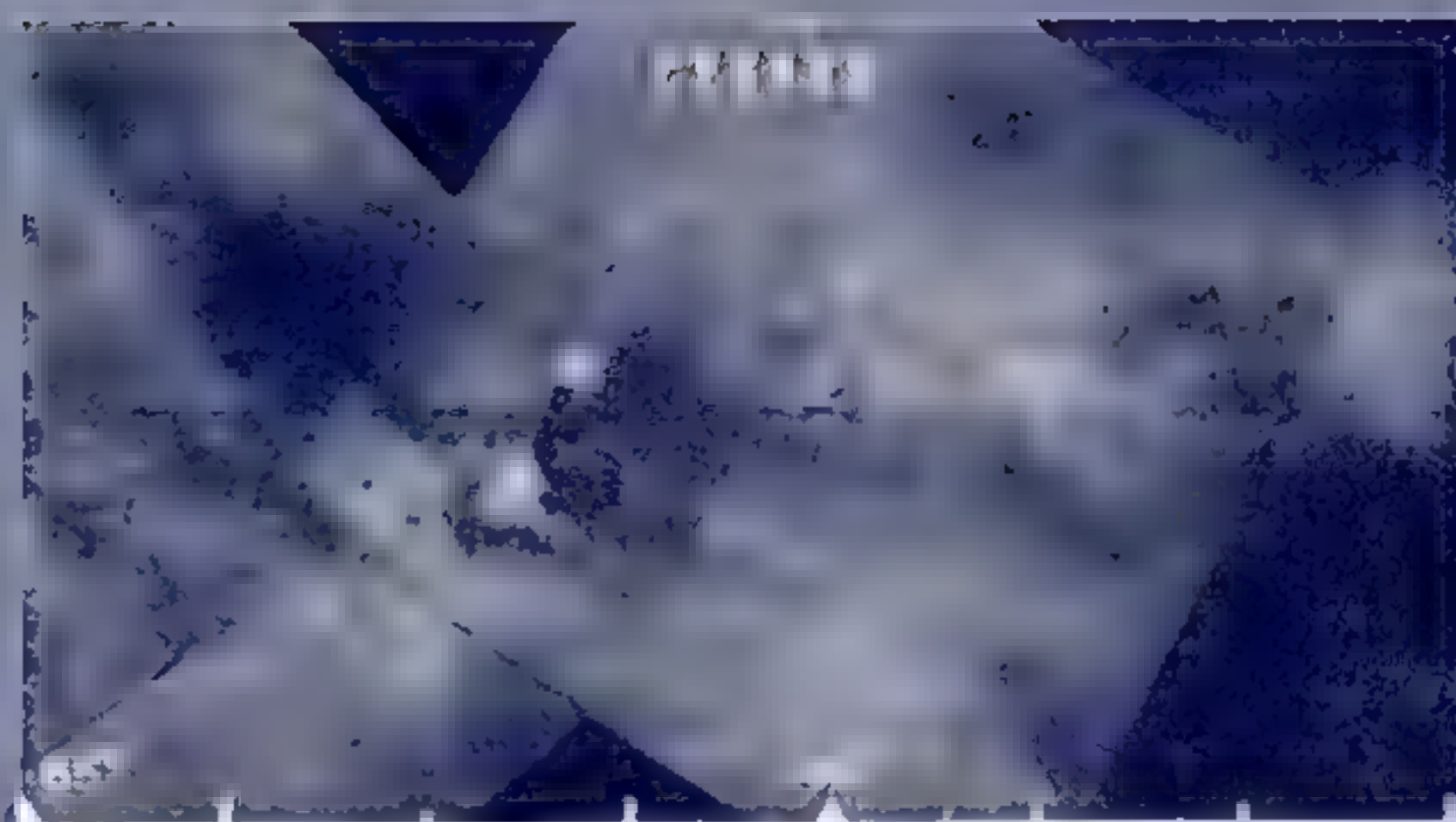
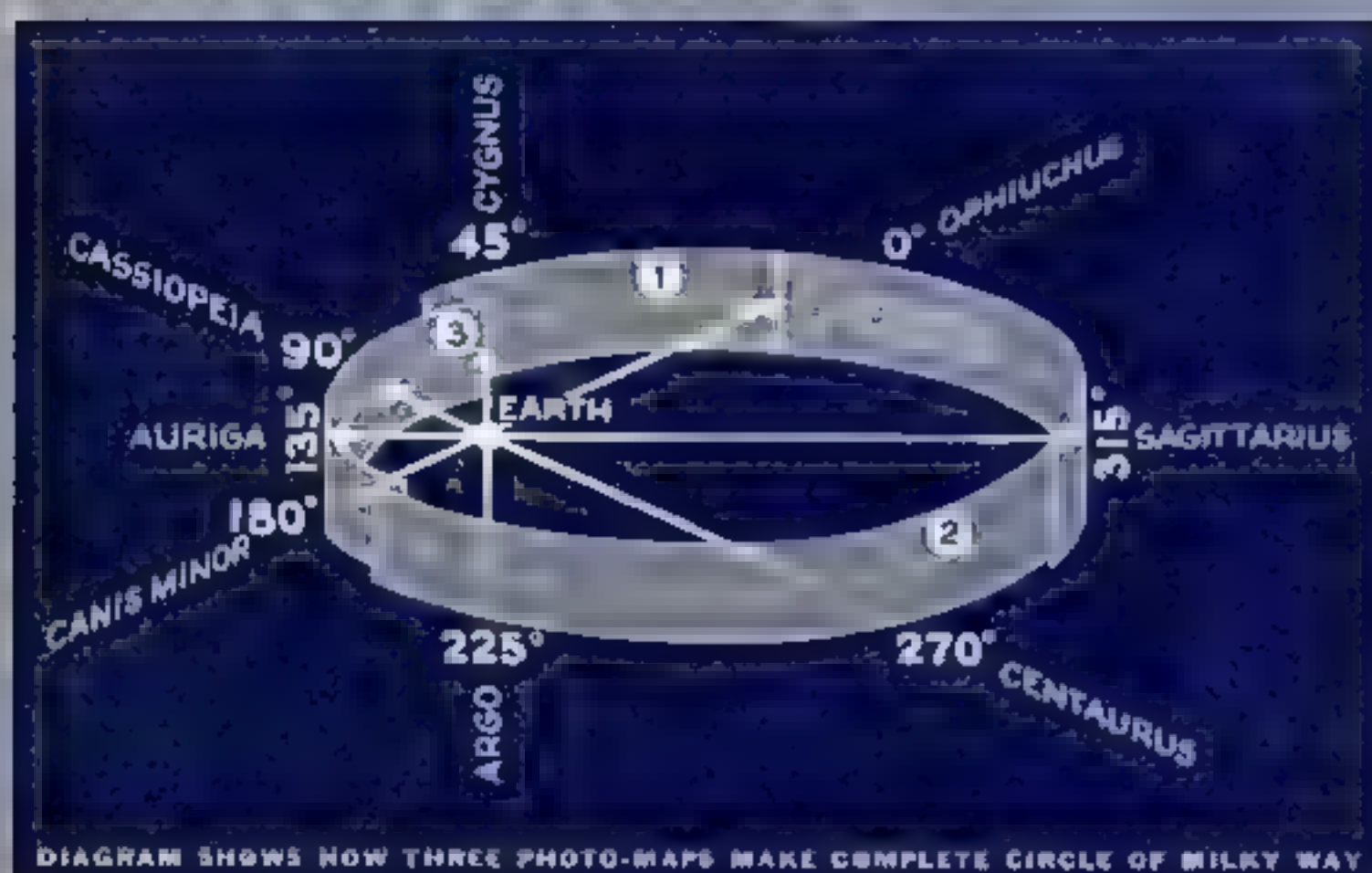
PHOTOSYNTHESIS PLANTS SUPPORT ALL LIFE

To chlorophyll, the green pigment that makes green plants green, all living things owe their current existence. It is the function of chlorophyll, in a mysterious collaboration with sunlight, called photosynthesis, to link together the hydrogen atoms in water and the carbon atoms in carbon dioxide. This primary linking of hydrogen and carbon, achieved no other way, produces the major chemical constituent of all living cells. Thus chlorophyll-containing plants, from giant forest redwoods to the single-celled diatoms of the oceans and lakes, are the only self-sustaining living entities. All other forms of life, on land and sea, are parasites which, feeding on each other, feed ultimately on plants.

That chlorophyll makes green plants grow is shown in the color picture demonstration on the page opposite, photographed in the laboratory of Dr. H. A. Spoehr of the Carnegie Institution at Stanford University. How photosynthesis works is a mystery that is now yielding to attack by a new, potent weapon of science, the tagged atom. These are artificially radioactive atoms which can be introduced into plants and animals and traced throughout the process of absorption into tissues. In exploring photosynthesis, Drs. Samuel Ruben and Martin Kamen employ carbon atoms tagged by the Lawrence cyclotron at the University of California. These they have traced from their inorganic partnership with oxygen in carbon dioxide gas (above) to their organic union with hydrogen in carbohydrates in bean and sunflower leaves (right).



Radioactive carbon, autographed on photographic film, has demonstrated a new fact about photosynthesis. Carbon (left) has been partially photosynthesized without light. With light (right) it has been fully absorbed.



THE GALAXIES

MILKY WAY IS A SPIRAL UNIVERSE

Shown here all in one place is the Milky Way, the great wheel of stars that arches through the full 360° circle of sky around the earth. This complete chart, covering about 10° of galactic latitude on either side of the galactic equator, is composed of three photographic maps made at three observatories: 1) at Mt. Wilson in California, 2) at the Boyden Station of Harvard Observatory at Bloemfontein, South Africa and 3) at University of Penn-

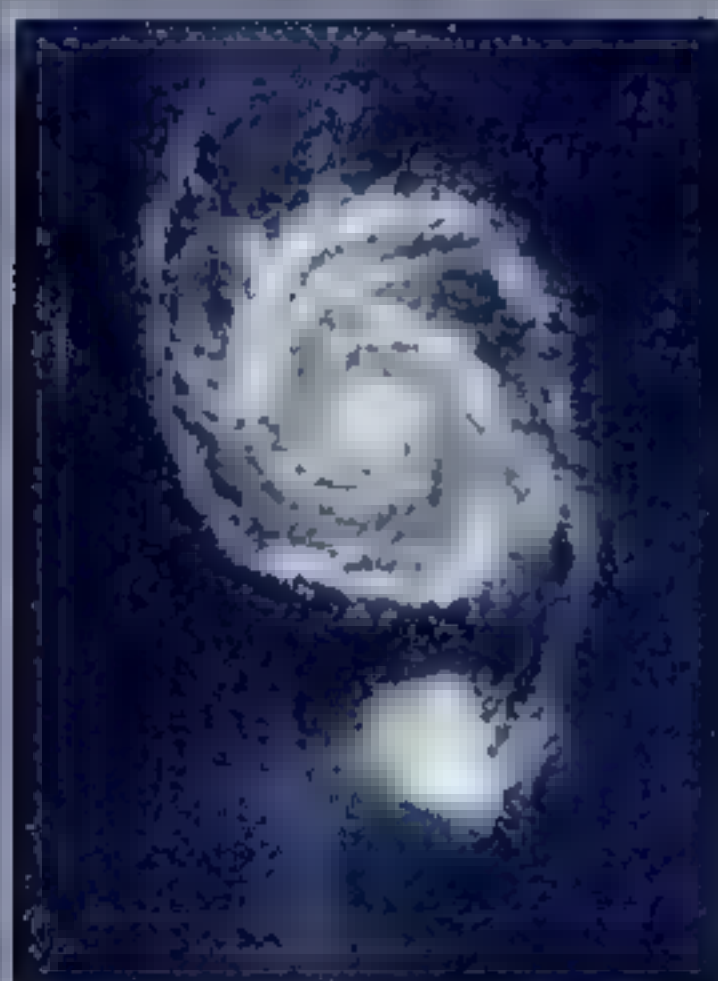
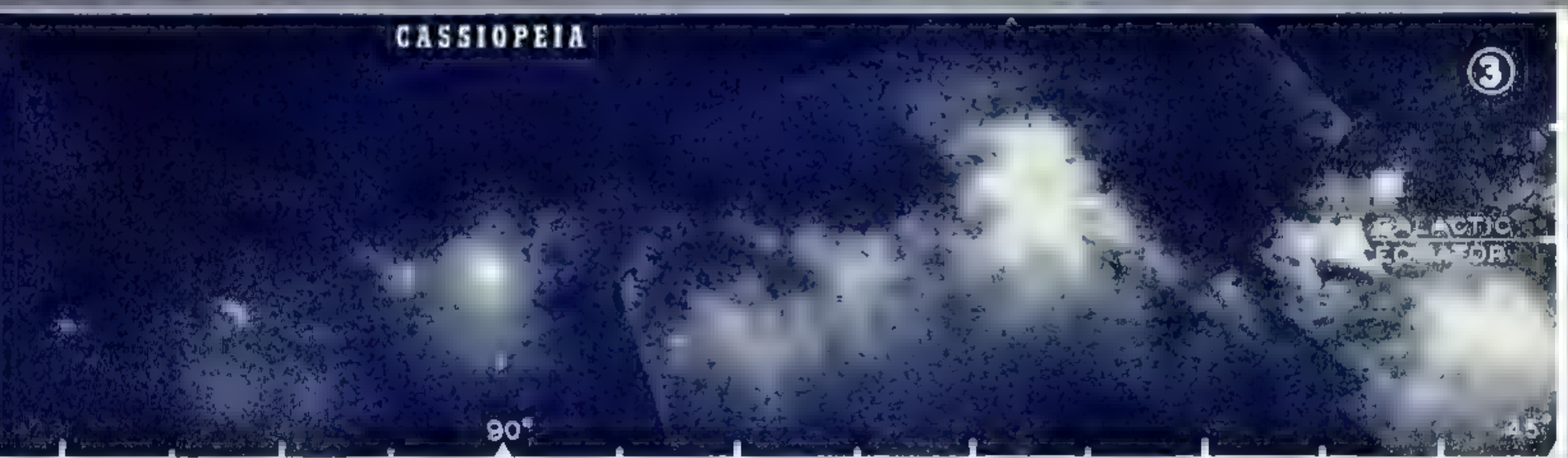
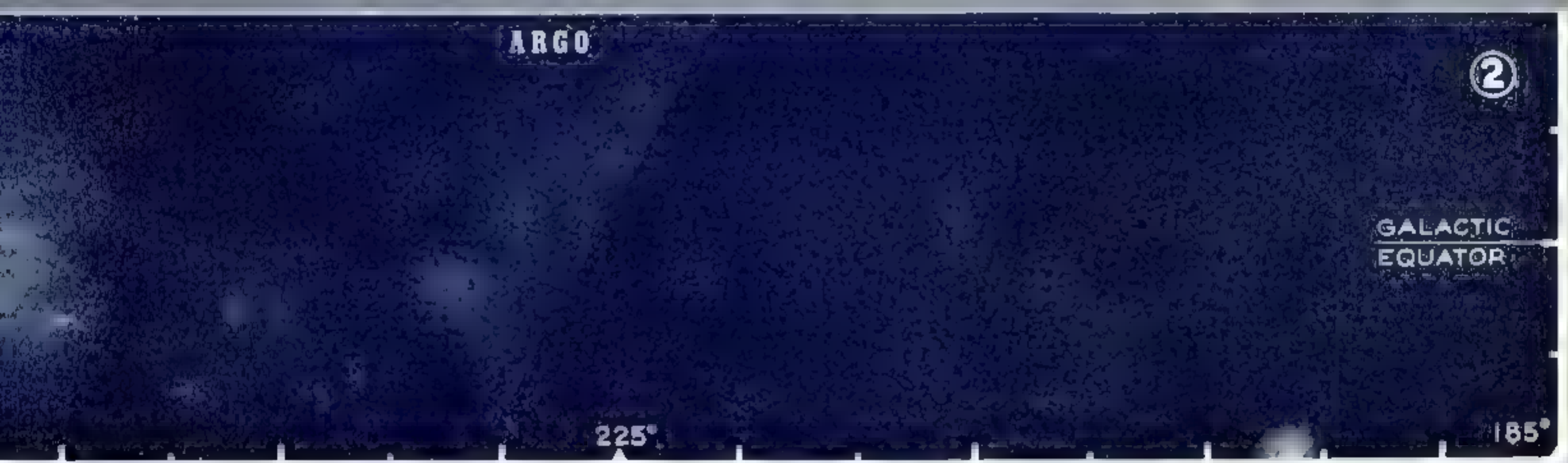
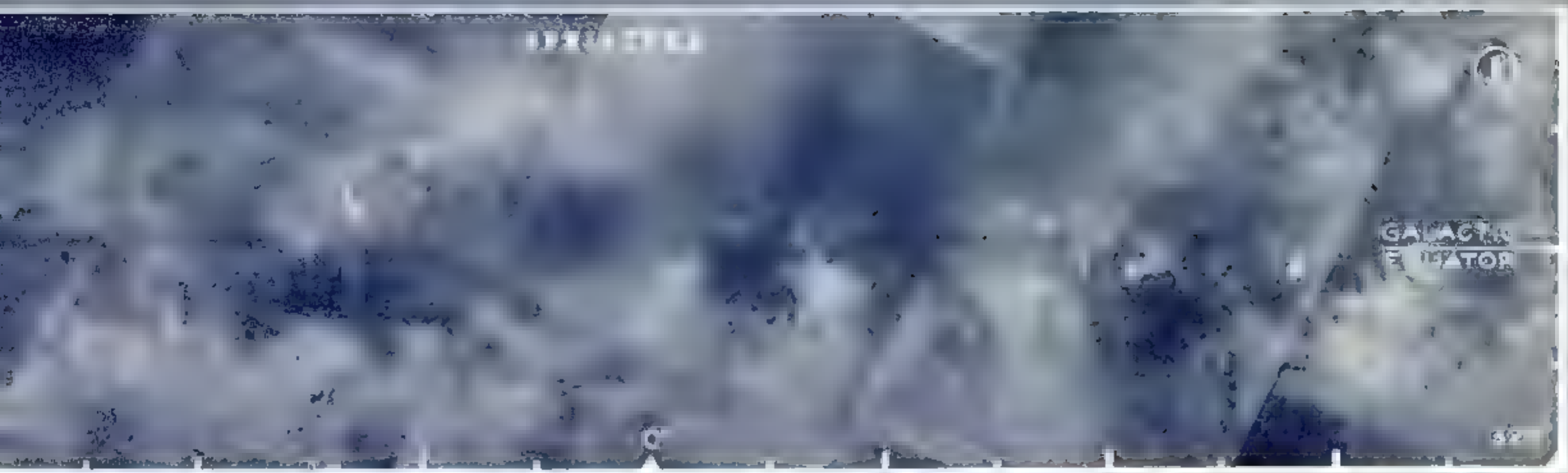
sylvania's Cook Observatory near Philadelphia. The constellations, flagged in at their approximate positions along the top of the chart, will help the observer orient himself in the Milky Way.

This full-circle look at the Milky Way is the best of all picture demonstrations of the revolution in astronomy which during the last 25 years has opened up a super-universe with measured mileposts far out beyond the godliest intimations dreamed by man. In its vast spaces have been located numberless universes and systems of universes. Within one of these universes, now called galaxies, our earth, sun and solar system are a dust mote. The Milky Way is earth's edge-on, inside view of its own galaxy.

Like most galaxies, ours is an irregular spiral disc of stars, clusters of stars, murky, lightless dust clouds and bright, ghostly nebulæ, swinging out from a brilliant concentration of stellar stuff at its

hub. Two thirds of the way from the center toward its outer edge is the solar system. The center of our galaxy seen from the earth lies in the most splendid region of the Milky Way near 0° galactic longitude (maps 1 and 2 above). In the region of Auriga (map 3 above), where the Milky Way is thinnest, Earth looks away from the center into the outer edge of the galaxy.

In the open sky on either side of the Milky Way can be seen other galaxies, riding in the silent void at incomprehensible distances from earth and galaxy. Seen edge-on, they appear as tiny miniatures of our Milky Way with bright condensed centers and veiling dust clouds, such as seen in the chart above. Where they lie face-on to earth's telescopes, many of the cosmic objects that appear in our own galaxy can be identified. Still undetermined is their detailed distribution in and the final pattern of the super-universe they populate.



Face-on view of galaxy, M 51, shows spiral pattern common to most galaxies.

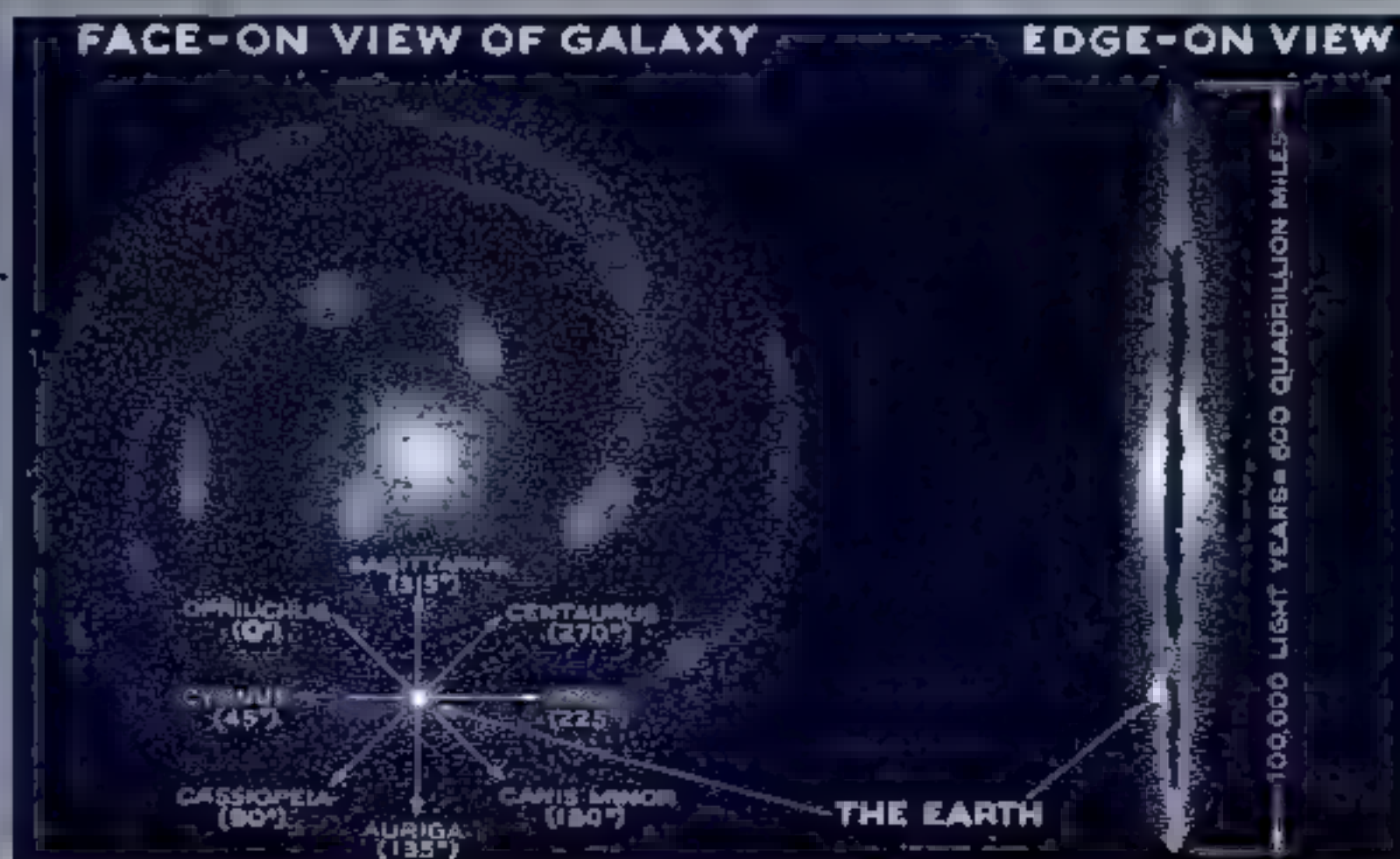
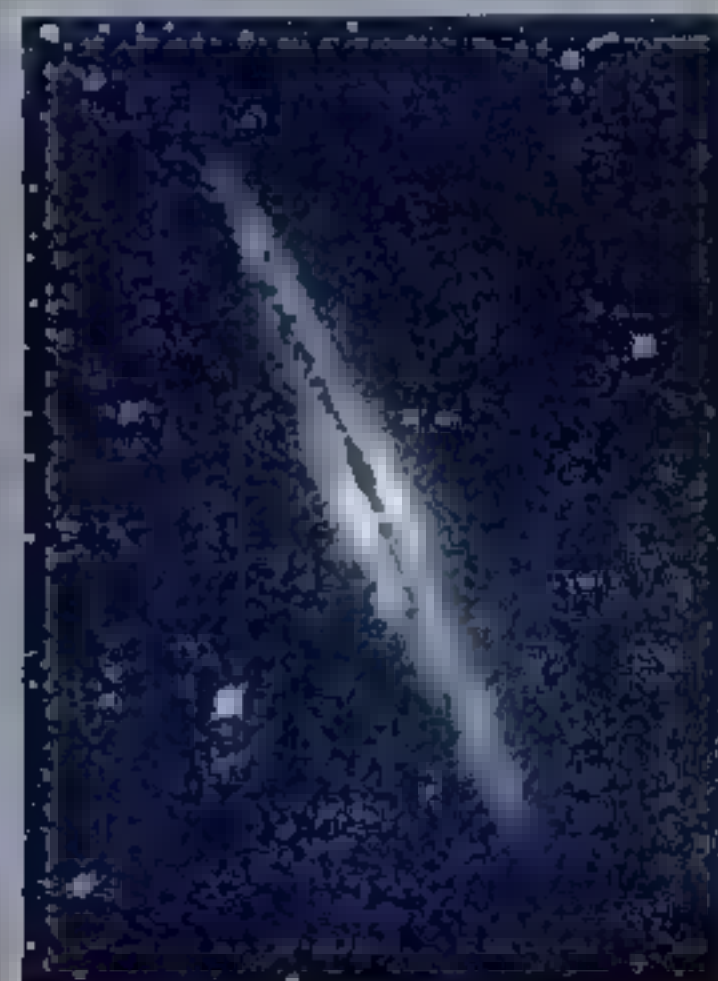


Diagram of our galaxy shows schematic distribution of stellar concentrations in spiral pattern and locates the approximate position of earth. Arrows help visualization of Milky Way in face-on plane.



Edge-on view of distant galaxy, with dust clouds and nebulae, suggests Milky Way.

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CONANT IDENTIFIES CAUSE OF SCIENCE AND FREEDOM

Quoted below are paragraphs from two recent addresses delivered by James Bryant Conant, president of Harvard University and chairman of National Defense Research Committee, one to last June's M. I. T. graduates; the other to Sept. 27 meeting of British Association for the Advancement of Science in London. Together they are an eloquent scientist's statement of the integral identity of the cause of science and freedom, on which the promise of the future depends.



JAMES BRYANT CONANT

Since the 15th Century three major developments in human society have gone hand in hand—the rise of modern capitalism, the development of science, and the evolution of free institutions. There are a multitude of striking interconnections between these three paths of development of the Western race. Without science neither a business civilization nor the social philosophy of liberalism could have come to pass. And, conversely, without liberalism, science could not have blossomed and endured.

If we consider the effect on science of the form of society in which the scientist lives, we cannot fail to realize the debt that both science and industry owe to that political movement which gave us our present degree of personal freedom. It is hard indeed to appreciate how much we owe to this release of human energy—the release made possible by a growth of free institutions in every Western nation. We must not let the momentary triumph of the totalitarian states fool us, nor let our eyes be diverted from the fact that three paths of development—political freedom, free enterprise, science—run parallel. The world's present travail makes their brief history an ever more precious heritage. We have learned that we cannot lose one without suffering the loss of all.

Science may temporarily appear to bloom under a totalitarian dictatorship, but no one who has known the history of science can fail to prophesy the ultimate withering of the scientific tradition in a totalitarian state. Progress in science has been made by the unorthodox individual. He cannot survive a regimented social order. If we value a continuation of scientific advance, either in pure science or in technology, I do not see how we can fail to be concerned for the preservation of both free initiative and free democratic institutions.

We must, therefore, hold first in our hearts the preservation of freedom in the world we are going to live in after this war is over. Men of science realize more than many others the potentialities that lie ahead in the future. Men of science realize the extent to which modern technology has diminished effective distances around this planet. They know too that the end of this revolution in transportation is not yet in sight. But, to them, it is clear that dreams of new adventures and new conquest of the material universe can find their realization only in the labor of free men.

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Men are back in the mood and the money for something on their feet that has character. They want something that feels good . . . Their shoe is Roblee—the quality name in the \$5.50 to \$6.85 bracket.

Slip a pair of Roblees on your feet. They fit as though they've known your feet for months. Then see how they help you "walk"



- 1 Not this way—feet fanned out.
- 2 Not this way—feet grooved in.
- 3 But THIS WAY—the Roblee Tread. Straight way—exclusive construction tends to point toes straight ahead.

Go into a Roblee store displaying the red-and-blue sign. Feel that "meaty" leather of Roblee Shoes.

Look at the quality workmanship in every stitch and every inch.

Figure the extra mileage in those 9-iron oak bend soles. Admire those top-quality, cropped-calfskin upper leathers that hold that just-bought shape, take a shine better.

Your Roblee retailer is also featuring the new "Military" styles—they're tops right now . . . United Men's Division, BROWN SHOE COMPANY, Manufacturers, St. Louis.

\$5.50 to \$6.85

Some Styles—Men's—St. Louis—H. H. H. H.



ROBLEE SCOOP! A duplicate of the new U. S. Army legging-top boot being built by Roblee is now available for civilians. The full boot protection and legging comfort offered by this new type boot is sure to make it a national favorite.

Made from Brown Glove Elk, 16 inches high, soft toe, half-double sole and rubber heel—B1.



Camp or Campus—Business or Boulevard—here are your Roblees for Fall

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B. ROAMER. Harness Stitched, Overlay Blucher Oxford, Moccasin-Type Toe, Flexible Sole—B997
C. ACE. Chukka Boot, Favorite for Military and Civilian Wear, Trim—Comfortable—B998
D. ROAMER. Smart Fall Quarter Brogue, Tread Straight Feature, Hand-Rubbed Bootmaker Finish—B897
E. AMBASSADOR. New "Boot-Seam" Tip Raglan Blucher Oxford, Hand Rubbed Bootmaker Finish, Double Sole—Rubber Heel—B884



One of two distinguished new versions of Clipper styling for 1942 — the smart Packard Clipper Touring Sedan. Both Clipper Six and Eight (only \$55 difference) are available as either Special or Custom models.

How Clipper beauty pays off... **in more miles per gallon!**

LOOKING AHEAD?



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THE CLIPPER**

THOSE LONG, LOW, RACY LINES you admire so much do more than delight your eye.

They're also there because (among other benefits) they enable the Clipper to cut through the wind with phenomenally low resistance — hence save you gas.

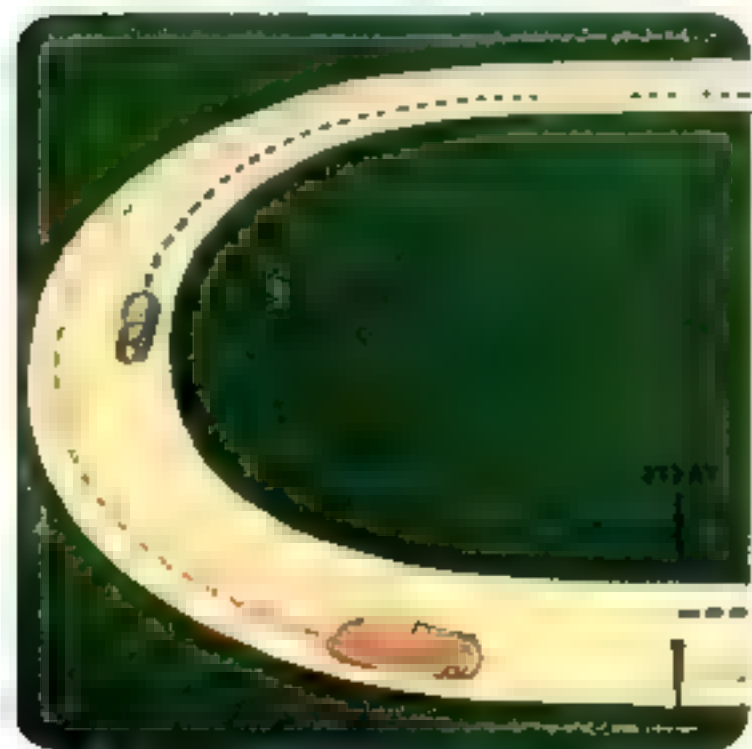
Proving Ground tests provide exact figures on this new economy. For example: last year's Packard was a marvel of thrift (an economy champion, in fact). Yet, tested against the new Clipper, it lost out. The Clipper was not only better—but 12% to 18% better on gasoline mileage!

Yet the Clipper offers something even more important to the car buyer of today. *It is built to meet the times!*

These are times that put a new high premium on *quality*. Quality that pays out in *extra miles, extra years, extra value.*

So, if you want a car that's a "long haul" husky — combined with the fuel economy so important today — Skipper the Clipper! There's one waiting for you at your Packard dealer's. **ASK THE MAN WHO OWNS ONE**

1942 PACKARD CLIPPER



MEET THE NEW CHAMPION! — 1941 Packard was *thrifty*. But actual test shows how Clipper design steps up economy. Same amount of gas was put into both cars. True-scale diagram shows Clipper's margin.



FLIGHT-LINED FOR ECONOMY!—Precision meters prove that Clipper streamlining cuts wind resistance; results in important gasoline economies! The 1942 Clipper delivers up to 18% more miles per gallon!



BRINGING SENSATIONAL CLIPPER STYLING to every Packard line permits lower Clipper prices. Even the 1942 Clipper 8 is substantially lower priced than '41 Clipper 8 — same power — same room — same comfort.



SLICE YOUR GAS BILL FURTHER... and enjoy automatic driving at its best... with Packard Electromatic Drive! Lets engine run slower... saves gas, oil, and engine wear. More than repays its extra cost.



THE GLITTER OF 45TH STREET'S THEATERS, JUST OFF BROADWAY, ENTRANCES TYRO ACTRESS MARGARET POWER. HER ACTOR BOY FRIEND, CARL GOSE, LENDS COURAGE

BROADWAY HOPEFUL

ONE OF THOUSANDS WHO SEEK AN ACTING CAREER, MARGARET POWER SETS OUT TO CRASH THE STAGE

Hunting the producers' offices in the square mile of theater blocks flanking midtown Broadway are some 750 professional actors. Of these, 1,000 a year get jobs. For this lucky 1,000, the average year's employment is four to five weeks, the average yearly income, excluding stars, \$200 to \$500. Yet every fall thousands of gifted, handsome young Americans swarm down anew on Broadway in the hope that, some day, they may become a Helen Hayes or a Katharine Cornell, an Alfred Lunt or a Maurice Evans.

Typical of these theatrical novices is the 19-year-old Jersey girl above. Her name is Margaret Spickers, but

for euphony's sake she has changed it to Margaret Power. Her preparation consists of a life-long interest in theater: four years of high-school dramatics, two years at a stage academy, two seasons of ingenue roles in summer stock. She is now living in an actors' rooming house on 84th a week. The bulk of her day is given to job hunting. In spare time she studies dancing and posture, reads plays with fellow actors, talks theater anytime with anybody who will listen and sees as many plays as possible. Earnest, hard-working, resolutely ambitious, she has "no time for anything but the stage," has decided not to marry till she has made her mark.

Broadway hopeful (continued)



IN SOUTH AMERICA Longines Watches are known and esteemed in all the capitals of our 10 sister republics. Leading jewelers there as here have sold Longines Watches for upwards of 50 years. Longines Watches enjoy leadership as well in the six countries of the Isthmus in Mexico and in the island republics of the Caribbean. Truly throughout the world no other name on a watch means so much as Longines.



Wherever there is an appreciation of things fine and beautiful, you will find Longines Watches held in the highest esteem. Over the years, they have proven themselves uniformly dependable, accurate, and long-lasting. Their excellence and elegance have been recognized by 10 world's fair grand prizes, 28 gold medals, and more honors for accuracy than any other timepiece.

Longines jewelers now show the 75th Anniversary Longines Watches priced \$40 upward; also a companion watch of distinctive merit in the medium price field, the Wittnauer Watch, priced from \$24.75;—products of

LONGINES-WITNAUER WATCH CO., INC.
New York, Montreal, Geneva

LONGINES
75th Anniversary Watches
75TH ANNIVERSARY SERIES, \$75 EACH



Margaret hunts a job at Actors' Equity Association, where all new shows and their cast requirements are posted. She does this every morning at 10, after rising at 8:30.



She reads a part for Broadway Producer Brock Pemberton, who is interested in her career. For tryouts and readings, she wears her best Arnold Constable suit. Cost: \$45.



With fellow actors she reads plays for practice in her 26-n-week room. On wall are pictures of her pianist brother, her boy friend, Stars Katharine Cornell and Errol Flynn.



86.6 Proof
70% Grain
Neutral Spirits

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**HAPPY EATING
AT OUR HOUSE**

—SINCE I GOT
THIS TIP ON
COLMAN'S



The perfect season-
ing. Always add a
dash in cooking.

Everyday dishes
made a hit since I've
learned how to season
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Colman's gives a
fine flavor to meats,
gravies, sauces and
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"Puts sparkle in food
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touch," says H. H.

FREE RECIPE BOOKLET—

Atlantic Sales Corp., Sole Distributor, 3414
Mustard Street, Rochester, N. Y. Please send
me 12 new Colman's recipe books.

Name _____

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Life among the Leathernecks

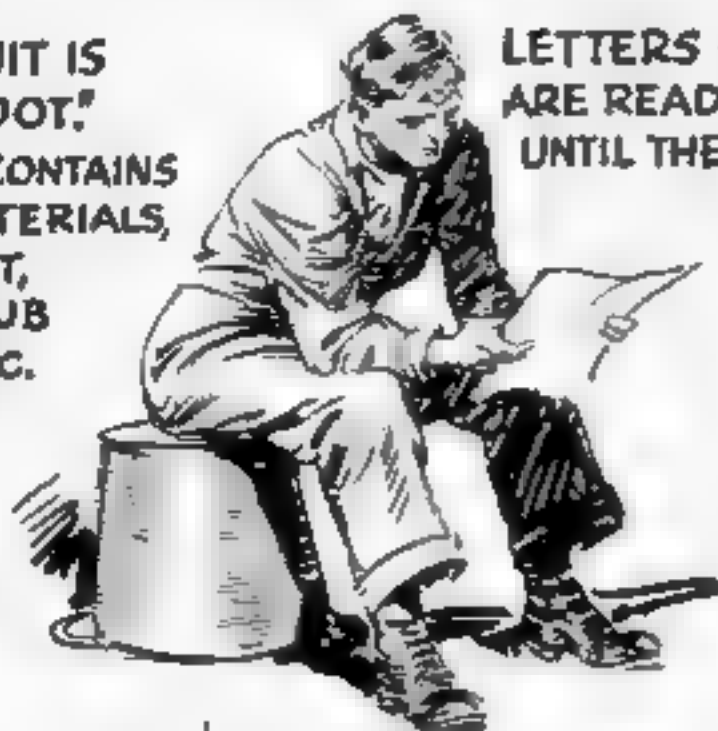
recently sketched in action at San Diego Marine Base by Texaco's artist

FRANK
GODWIN



HE'S A
"BOOT"

A NEW RECRUIT IS CALLED A "BOOT." THE BUCKET CONTAINS WRITING MATERIALS, SHAVING KIT, SOAP, SCRUB BRUSH, ETC.



LETTERS FROM HOME ARE READ AND RE-READ UNTIL THEY WEAR OUT!



"CUT IT THIS WAY." MEAT EXPERT SHOWS RECRUITS AT COOK'S SCHOOL BEST WAY TO CUT MEAT. THIS IS ONE OF THE MANY TRADES TAUGHT IN THE MARINES.

ON THE AIR WITH A PORTABLE FIELD RADIO. MAN AT RIGHT IS CRANKING "JUICE."



NOT MEN FROM MARS! -JUST GAS MASK PRACTICE. NOTE RIFLE HELD BETWEEN KNEES WHILE ADJUSTING MASK.



MEET THE CHAMP! OLD-TIMER WINS PIE-EATING CONTEST—THEN ASKS FOR MORE PIE AS A PRIZE!



HERE'S OUR FULL-FLEDGED LEATHERNECK! AFTER HIS "BOOT" TRAINING IS OVER.



LOADING UP FOR THE MARINES!

TEXACO SUPPLIES THE MARINE CORPS WITH LAND, SEA, AND AVIATION DUTY LUBRICANTS THROUGH THE U.S. NAVY DEPARTMENT. TEXACO ALSO SUPPLIES LUBRICANTS TO THE COAST GUARD, WAR DEPARTMENT AND FOR OTHER GOVERNMENT REQUIREMENTS.

SEA SOLDIERS LAND - IN PRACTICE "RAID" FROM GASOLINE-DRIVEN HIGGINS LANDING BOATS.



TEXACO SERVES THE U.S. MARINES

and more than 45,000 Texaco Dealers serve the motorist with outstanding Texaco Products ... Sky Chief and FIRE CHIEF Gasolines—Insulated HAVOLINE and TEXACO MOTOR OILS and MARPAK CHASSIS LUBRICANT



TUNE IN FRED ALLEN Every Wednesday night ... See your local newspaper for time and station.

"Seamprufe"
TRADE MARK
THE PROOF IN "SEAMPURFE" IS IN THE WEARING

The Lingerie with
the Longer Life-Line

MODEL 525
About \$2

MODEL 527
About \$2

MODEL 528
About \$3

MODEL 529
About \$2

Expect long service from these "Seamprufes", because you'll get it. Superbly detailed of suave, serviceable rayon satin woven with Celanese* yarn. Take plenty of wear and washing without a whimper. Seams won't come apart. Straps won't pop off. Carefully fashioned to really fit.

Creme Back
Rayon Satin LaRue
Woven With
Celanese
Yarn.

LOOK FOR THE FAMOUS "Seamprufe" LABEL

Seamprufe Dept L10
148 Madison Avenue New York
Please send me lingerie style folder and name of
nearest Seamprufe dealer

Name _____ State _____
Address _____
City _____

3,000 DEALERS FROM COAST TO COAST FEATURING "SEAMPURFES"

Broadway hopeful (continued)



A tip on a twirl is given Margaret by Gertrude Lawrence, versatile star of *Lady In The Dark*. At right is Miss Lawrence's portable dressing room for quick changes.



How to register horror is taught Margaret by Boris Karloff, star of *Arenia And Old Lace*. The stage corpse is papier-mâché. Margaret found Karloff "quiet and shy."



A favorite actress is Helen Hayes, who takes time out from rehearsal of *Candle In The Wind* to show Margaret one way of walking down steps. Alfred Lunt looks on.

CONTINUED ON PAGE 33



If it's got that intriguing new Magic Purse . . .

It's a Lady Buxton

The "Magic Purse" is NEWS, and exciting news about the smartest women's billfold ever made! For here's a roomy, built-in coin purse that's securely locked in place, yet can be completely removable for use "solo" when you want to carry with you only small change.

Works as quickly as A. S. C.
Takes just a second to un-
snap and lift out. Just a
jiffy to put back again—
and the unique "flap-lock"
sees that it stays in
securely.

\$5 "all-fabric" Three-Way
with Magic Purse. Others
in a choice of colors and
leathers, from \$3 to \$7.50

And if you want a real "Bargain"—
Lady Buxton "Three-Way" models give you
three folds for the price of one!

For EVERYDAY, the "Three-Way" offers three full-length compartments to tuck *everything* into and find again in a minute. Separate pockets for cards, license, shopping slips, tickets, etc., and, of course, the Magic Purse for your coins. The billfold expands smoothly when you cram it full, eases back to place when you unload it, and this flexible patented construction makes Lady Buxton the one billfold that stays young-looking.

For TRAVEL, a secret hideaway for special papers and large bills, the "Three-Way" has one! Simply lift out the inner partition, reverse it and put it back. It locks in, keeps contents out of sight. Or take it out to check separately at your hotel.

For EVENING, a slim, separate billfold to add a dash of brilliant color to your ensemble. Again, just remove the inner partition entirely. And see . . . a complete streamlined billfold, perfect to carry your evening needs.

Here's a perfect wealth of Gift Ideas

THE THREE BILLFOLDS ABOVE (listed from top to bottom)

\$1.50—Magic Purse model with open window

\$2—Magic Purse model with double vision removable card case in sheepskin and cowhide combination

\$3—Zipper model in sheepskin with removable Magic Purse



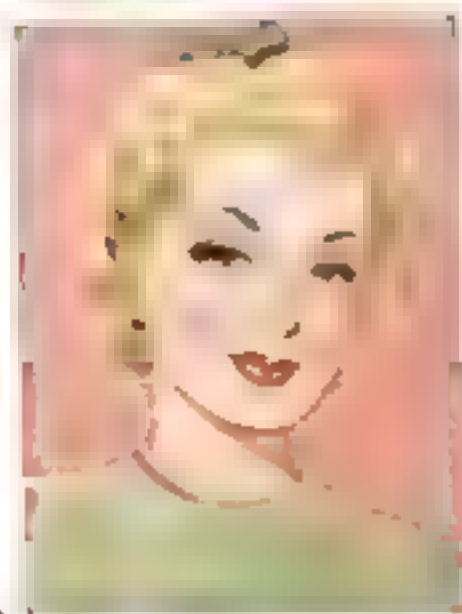
It's free! You'll find gift suggestions for every occasion . . . and at about every price from 50¢ to \$20.00. Useful information about gift wrappings, too. Just write Buxton, Inc., 4189 Orleans Street, Springfield, Mass., or Dept. F, 47 West 34th Street, N.Y.C.

Make the most of your beauty!

FIND YOUR TYPE IN THIS NEW CHART BY
PALMOLIVE ... LARGEST-SELLING BEAUTY SOAP IN THE WORLD

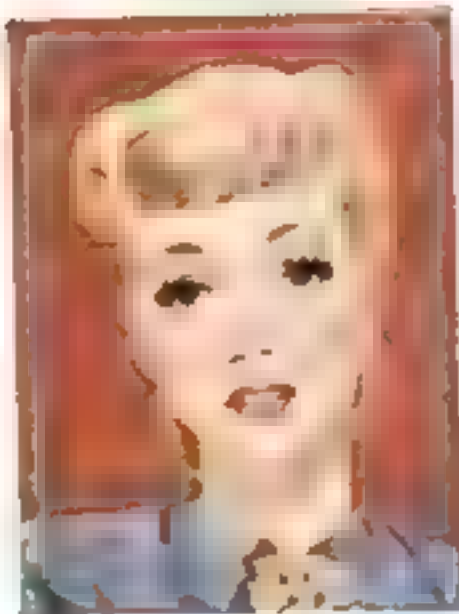
FOR "ROUND" FACES

IF YOU'RE
BLONDE..
TAFFY
TO
REDDISH



DON'T over-make-up your face. Your baby coloring's too pretty!
DO be an angel... brush your curls up, up into a "Cherub's Cluster"... young... mischievous. Choose soft pastels, to set off the delicate colors of your skin. And *always*... keep it radiant with Palmolive.

FOR "TRIANGULAR" FACES



DON'T wear too bright colors that compete with your coloring
DO be daring... accent your heart-shape face with a forward curl. Fill out the jaw line with hair full below the ears. Wear pastel blue, soft green, wine. Keep your golden skin glowing... with Palmolive Facials.

FOR "OVAL" FACES

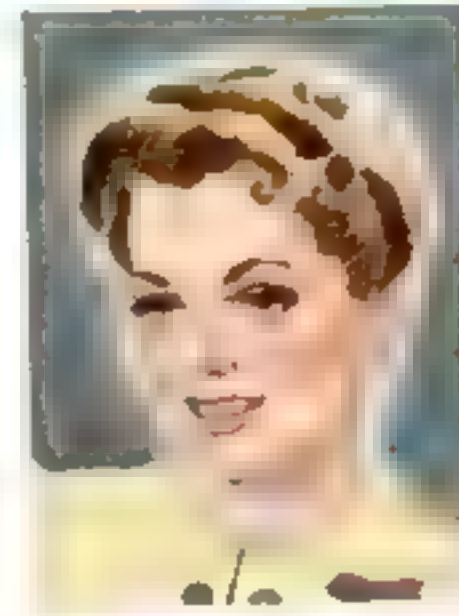


DON'T cover up your "ideal" oval with bangs or flowing hair.
DO pile your hair in a pompadour... Your pretty ears should be seen. Wear soft mauve, deep brown or green. Center attention on your satin-smooth skin. Remember... daily facials... with gently cleansing Palmolive.

IF YOU'RE
**IN-
BETWEEN..**
LIKE
MOST WOMEN



DON'T broaden your face with broad or high necklines. Wear V-necklines for depth.
DO brush your hair up from temples in "side wings" for height. Browns, and greens accent your coloring. Keep your skin soft as rose petals with Palmolive Facials... morning and night.

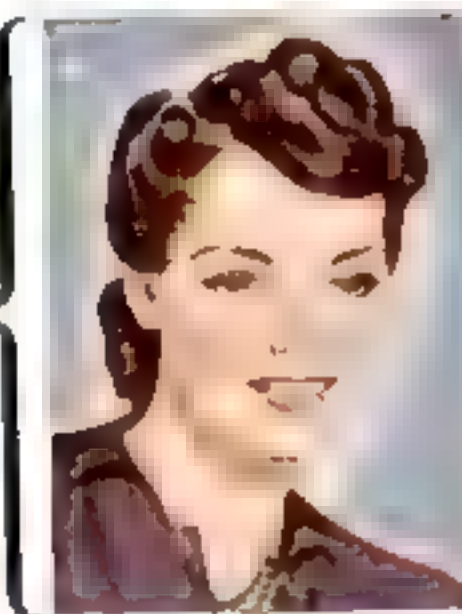


DON'T detract from your V-shaped face by choosing dresses with V-necklines.
DO wear soft, high necklines. Brush hair up, up at sides to break the cheekbone width. Lovely skin is most important. Do use Palmolive. Keep dress colors soft... pastel yellows and greens.



DON'T worry about necklines. Your oval face is so good... that anything goes!
DO reverse a curl or two! Play up that Titan gleam in your hair with rich greens and tans. Keep your gorgeous complexion gorgeous. Be faithful... morning and night... to Palmolive Facials.

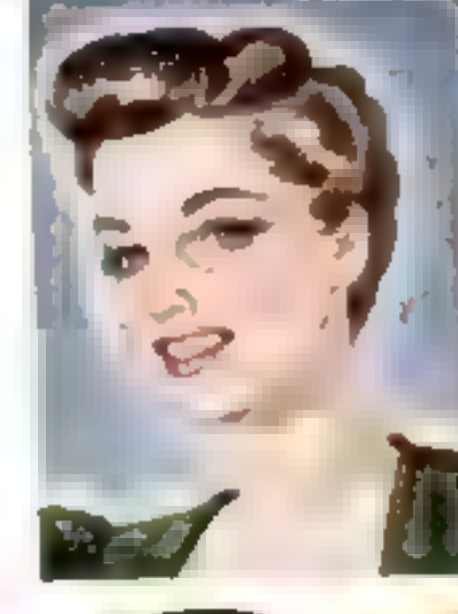
IF YOU'RE
**DARK-
HAIR..**
WITH FAIR
TO OLIVE
SKIN



DON'T wear your hair in severe lines. Yours should be the soft and feminine look.
DO sweep your curls up. Break width with low side part. Bright colors are best... blues, amethysts, or Kelly greens. And best for your complexion... gentle daily facials... with Palmolive.



DON'T wear mousey colors... frame your fair skin, your blue eyes, in bright colors.
DO wear a double-roll atop your forehead... side hair in a soft, flattering cascade. Acute color... for your cute type! And twice-daily facials with Palmolive... gentle, kind... for your fair, fragile skin.



DON'T slick back your hair... it will widen cheekbones, change your natural oval.
DO sweep up your hair for dignity. Forward curls and short back are good. Your dark hair's warm highlights call for rich greens, blues, rose shades. And Palmolive Facials, too, are so important!

But Remember Complexion comes first!

Start soap-and-water facials with **PALMOLIVE**,
made with Olive and Palm oils only, the
COSTLIEST OIL blend used for any leading soap

Whatever your type, whatever your coloring... let Palmolive prove that it can help you make the most of your beauty. How? The method is simple... and one that every woman should know! Palmolive is made not with animal fats—but with the *costliest oil* blend used for any leading soap. These

oils are olive and palm oils, long cherished as Nature's finest beauty aids... And yet **Palmolive costs you no more!**

Think of your skin... *fine... sensitive...* and ask yourself, "Will *less* than Palmolive's beauty care do for me?" *No!* For Palmolive costs you no more than other leading soaps!

Start today... to give yourself a gentle Palmolive facial, each night, each morning. Smooth that silky Palmolive lather over your skin... massage it gently, *pat, pat, pat*... and notice that Palmolive's lather is really *different*. It cleanses thoroughly, yet gently.

No wonder Palmolive has helped keep more complexions lovely than any other beauty soap in the world. Remember, the picture that is *you* begins with your complexion.

LOOK FOR THE NATURAL OLIVE COLOR
... it comes from olive and palm oils... nothing else.



NEW! MAN-SIZE, BATH-SIZE PALMOLIVE
Extra-big, extra long-lasting... for your tub and shower.
Economical! Ask your dealer for Bath-Size Palmolive.

Broadway hopeful (continued)



An actress needs smart clothes, so Margaret often visits Klein's on Union Square where clothes come cheap. Jacket price: \$2. Her biggest wardrobe item is stockings.



Stage hopefuls' hangout is Walgreen's drugstore, 44th and Broadway, where they lunch, criticize performances. But Margaret doesn't want to be a "Walgreen actor."



Rest from pounding Broadway's hard pavement is found on the Staten Island ferry, which offers a trip across New York harbor for 5¢. Of course, the boy friend is there.

From California and Florida come ideas for marvelous drinks

RONRICO
and Soda
is quite
a drink

It was the
biggest hit
in Florida
last winter

California and Florida have long known Ronrico and Soda as the perfect highball. It's light... refreshing—simply delicious. Just try it and see!

Mellow Ronrico works wonders in any drink. It's the best rum—bar none. Every mellow drop distilled in Puerto Rico.

Next time, try Ronrico in your Collins, cocktail or Cuba Libre and taste the improvement. Order it at your favorite bar. Ronrico is not only smart but inexpensive.

Write for "THE RUM CONNOISSEUR", a colorful booklet of delightful drink and food recipes. Enclose 10¢ for handling—or ask for free copy at nearest liquor store. Address: RONRICO CORPORATION, Miami, Florida.

RONRICO and SODA

Jigger of Ronrico White Label in 8 oz. highball glass; cubed ice and fill with soda. Many like a twist of lemon or lime peel. Ronrico is also delicious with plain water or ginger ale.

RONRICO

BEST RUM...
BAR NONE

WHITE LABEL (extra dry) and GOLD LABEL (dry), each 86 Proof. RED LABEL 90 Proof. PURPLE LABEL 151 Proof.

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U. S. Representative, Import Division, McKesson & Robbins, Inc., N. Y. C.

★ ★ ★ ★ ★

They're 100% AMERICAN

Trying Virginia Rounds the first time solely because they contain no particle of foreign tobaccos, women and men by many thousands are discovering a new thrill in smoking enjoyment.

Experience for yourself the full-flavored, downright goodness of this cigarette that is 100% American.

Smoke two packs of Virginia Rounds. Then see if you would return to any foreign-blended brand.

Made of highest quality tobaccos—by Benson and Hedges who make only fine cigarettes—they cost but a few pennies more. Plain ends or

Corn-tipped

★ ★ ★ ★ ★

VIRGINIA ROUNDS

The all-American Cigarette

★ ★ ★ ★ ★



NEW BOY UNPACKS HIS BELONGINGS IN CUBICLE
THAT WILL BE HIS HOME FOR NEXT SCHOOL YEAR



BEFORE BEDTIME ON SATURDAY NIGHT, LOWER-SCHOOL BOYS MEET IN MASTER'S STUDY FOR WEEKLY ICE-CREAM FEED. NEW BOY FRANK REICHEL SITS AT FAR CORNER OF DESK

LAWRENCEVILLE ITS DEMOCRACY MEETS PREP SCHOOL PROBLEM

The well-washed, well-combed boy shown opposite is one of 30,000,000 young Americans who started school in the U. S. last month. He is one of 10,000 young Americans who entered the privileged corridors of Eastern preparatory schools. He is one of 400 young Americans who last week trampled the green campus of New Jersey's venerable Lawrenceville School. He is Frank H. Reichel Jr., 13, of Fredericksburg, Va.

The surroundings in which Frank found himself were strange but not austere. Founded in 1810, Lawrence-

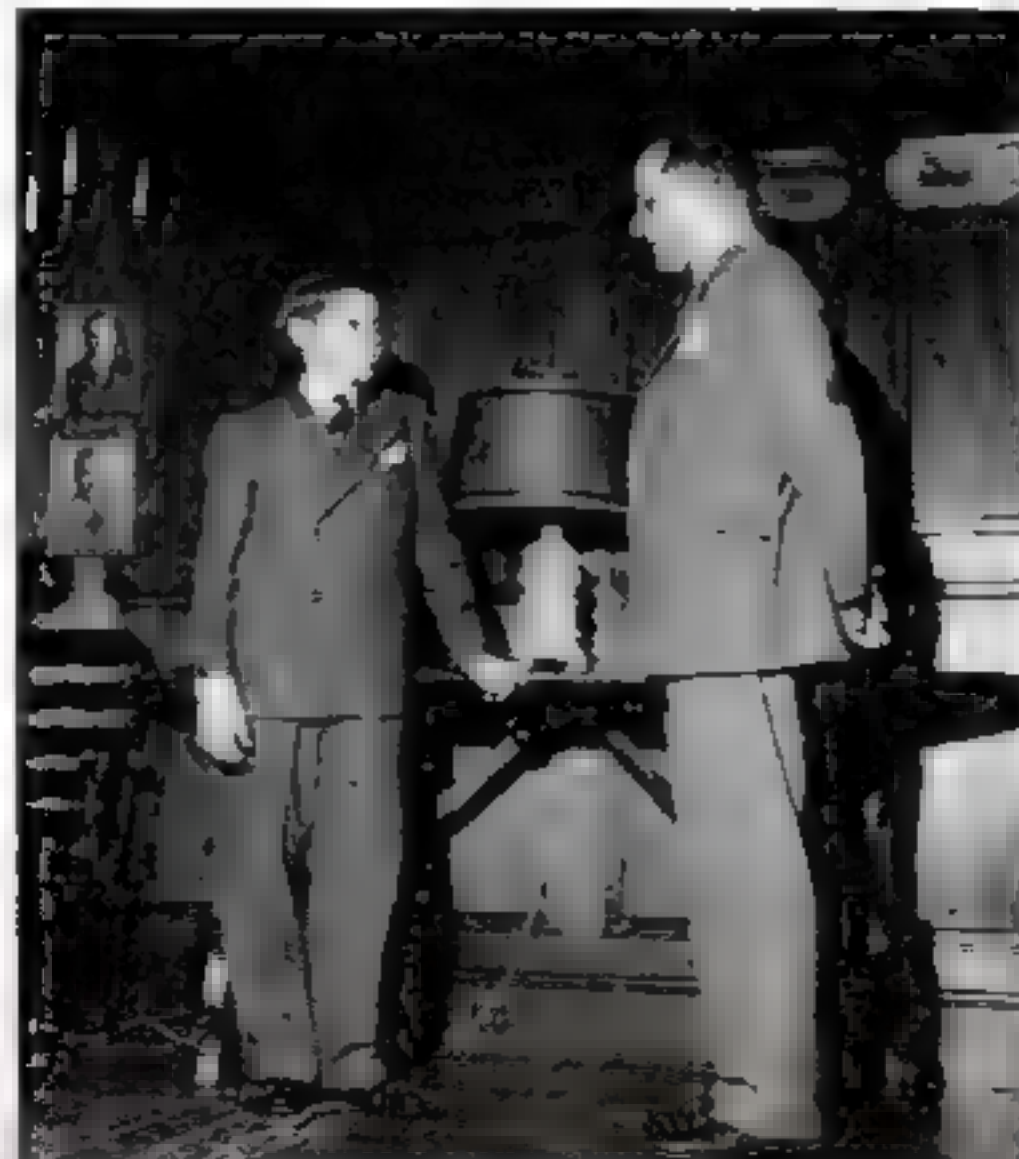
ville is third oldest, third largest of America's famed big boarding schools for boys. Its red-brick houses, bearded with generations of ivy, reflect the same air of serene maturity as do the more ancient ivied walls of Princeton five miles north. To plant their son in these distinguished purlieus for an academic year may cost some parents as high as \$2,000. But for this substantial sum he receives a kind of training vastly different from that which a day school can provide—a training in practical democratic living.

Many a parent annually asks, Is prep school worth the price? New Deal dollars have reared and equipped innumerable handsome public-school buildings throughout the land. Public-school administrators today are devoting more and more attention to college preparation. And more and more colleges are relaxing requirements in favor of public-school graduates. Under the circumstances educators wonder if the prep school will survive; if the prep school *should* survive? For Lawrenceville's answer to these questions, turn the page.

Feeling very little, Frank explores the big sprawling campus. Before him is the chapel. The school flag flies atop mast.

Headmaster Allan V. Heely greets Frank at tea for new boys. Frank is delighted to find the headmaster young and likable.

Wearing his "Rhinie" cap, Frank studies a mural depicting Lawrenceville legend of "Hungry" Smead and the pancakes.





After-dinner coffee is served in Kennedy House by Housemaster Harley Heath and his wife. Besides affording companionship, this interlude fosters the useful art of juggling a cup and saucer.



Ablaze with joy, Kennedy House cheers returns of the school election which swept two of last year's Kennedy boys—now seniors in Upper House—into office as president and vice president.



Unsupervised study is the rule for all except Lower School boys. If a study session degenerates into a bull session, as this one shows signs of doing, the wages of sin are dispensed next day.



Waiting on table is the duty of all boys in all houses. The shift may be a week or two as house councils rule. Boys also make their own beds, tidy their own rooms, perform other democratic chores.



of the school. Student government is very real, very active at Lawrenceville. Its central mechanism is the student council, composed of various house presidents plus officers of the senior class.



House meeting is conducted in common room by House President William Upjohn De Lano, 17, of Kalamazoo, Mich. On the docket are various disciplinary matters, a fight talk on house spirit.

EDUCATION AT PREP SCHOOL GOES ON 24 HOURS A DAY

The most important fact about Lawrenceville, about any boarding school, is that it controls the lives of its students 24 hours a day. As these pictures suggest, boarding-school education consists of a great deal more than consecutive classroom sessions. Boarding-school education encompasses everything a boy does during all his waking hours. Hence the boarding school serves, as the day school can never adequately serve, as a laboratory for research and training in the subtle science of democratic living.

At Lawrenceville a boy's whole cycle of existence revolves around the house in which he lives. The house plan, an American version of the English public-school system, was introduced by Lawrenceville's late great Headmaster James Cameron Mackenzie in 1883. Today Lawrenceville, alone among U. S. prep schools, maintains the plan. And it is the house plan which in great measure gives Lawrenceville its individuality.

Nestled in trees that border a big uneven circle of greensward are the houses of Lawrenceville School. For the most part they are weatherbeaten, homely, Victorian. Like most institutions with a past, Lawrenceville is sentimental about its architectural possessions. It has reared fewer swank and shining edifices than other schools of its wealth and standing. Its oldest building, Hamill House, has stood and sheltered Laurentians uninter-

ruptedly since 1814. Here you see Kennedy House, glamorously enshrined in the books of Owen Johnson '95 as the home of Dink Stover, Dennis de Brian de Boru Finnegan, and the ineffable Tennessee Shad.

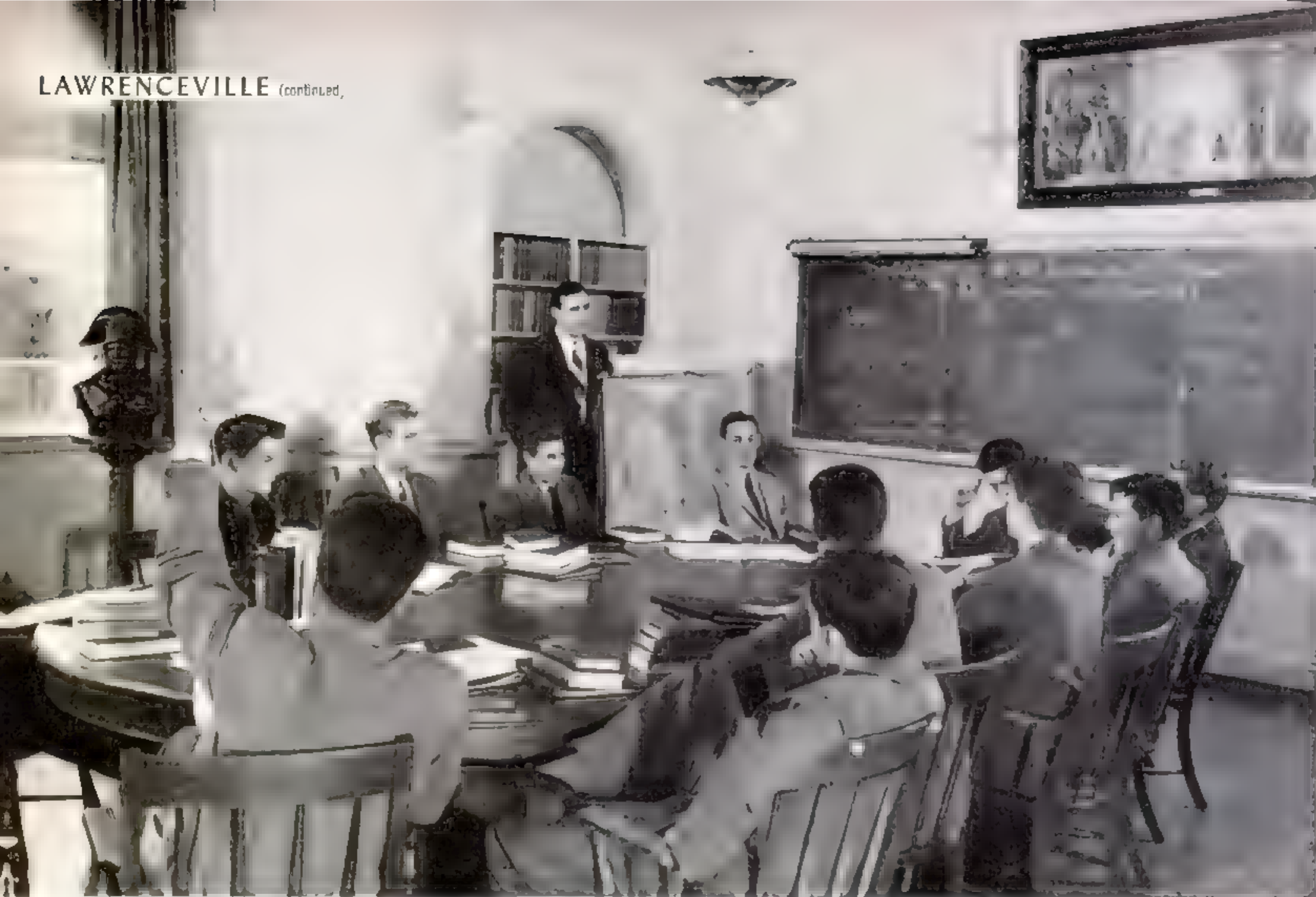
Kennedy House boys of 1941 are perhaps less designing, less mischievous than those of Johnson's generation. But their devotion to the Kennedy is no less profound. Kennedy House, like Lawrenceville's other ten houses, is far more than a dormitory. A Kennedy House boy not only sleeps in Kennedy House, he eats there, he studies there, he spends most of his leisure moments there. The

master of Kennedy House is his academic adviser, disciplinary director, and an arbiter of his manners and taste. The president of Kennedy House is his chosen student leader. If he is athletic he may play on the Kennedy House football, basketball or baseball team. If not, he conscientiously supports those teams in their regular rivalry with teams from Raymond House, Woodhull, Dawes or Cleve. Loyalty to the house team is often deeper and more articulate than loyalty to the varsity. And often as not house rivalries outrun in intensity rivalries with other schools.

Thus in the lively microcosm of the individual house each individual boy tellingly manifests the characteristics that ultimately will help or hurt him as a member of adult society. The house master can contemplate him in and out of the classroom, studying, playing or earning money, as do most of Lawrenceville's 100 scholarship boys, on self-help jobs. He can consecrate his efforts to teaching the whole boy, not just the alphabetical entity at a desk. By discussing religion—a prerogative denied the public-school teacher—he can help him formulate a philosophy of life. And he can check, 24 hours a day, on the success or failure of his teaching. It is through these services that a true preparatory school, like Lawrenceville, endeavors to fulfill its purpose and justify its existence in an unquiet and unpredictable world.



Kennedy House, theater of the Owen Johnson legends, is an archetypal Lawrenceville house. Built in 1889, saugly and arrogantly Victorian, it houses 33 boys, all third and fourth formers.



The round-table classroom has been a feature of Lawrenceville pedagogy since 1936. Sections are small and arranged in a circle. The group is assisted by a teacher. This is a class in the Principles and Principles of Democracy, a compulsory course for fourth formers.

The Esplanade is the scene of the trial and ordeal of all first form students. Here seniors must sit, smoke, and eat, and seniors, and juniors, and sophomores. On the Esplanade, the Esplanade, the Esplanade, the Esplanade, the Esplanade.



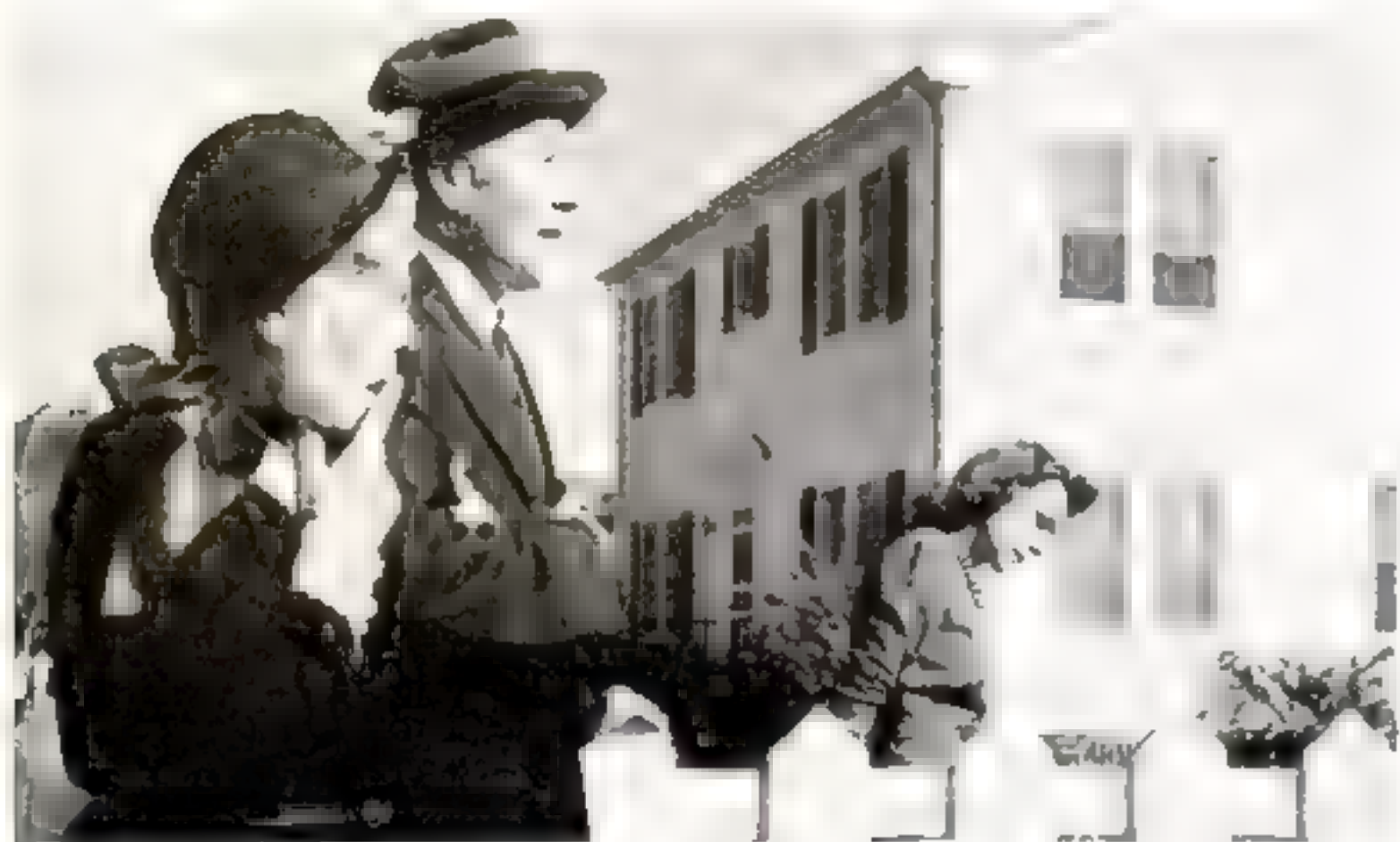


The library is a model of good illumination, utility and bibliophile opulence designed to elevate the taste of adolescent clients. Here music groups foregather around the phonograph on Sundays. Here boys rent prints of famous paintings for their rooms.

The Jigger Shop is off-campus oasis where unnumbered generations of Laurentians have stuffed. It sells athletic goods, stationery, cigarettes and furniture. But its principal commodity is ice cream, served in vast scoops, syruiped with all colors of the rainbow.



Our new neighbor had the mopes



MY! SHE WAS A CUTE LITTLE THING. Pretty as a picture. But she was, she used to pace the yard like she had lost her last friend. So sad. Not even so. Good-bye.

[illegible][illegible]

A LITTLE BIRD must have told her who did it, because, some days later, over from the little neighbour comes the most powerful man we ever read, thanking us for telling her about ALL BARN'S better way, and inviting us to come over for tea.

**Join the "Regulars" with
*Kellogg's All-Bran***

MADE BY KCL Q746 NORTH E 172EK

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LAWRENCEVILLE *continued*

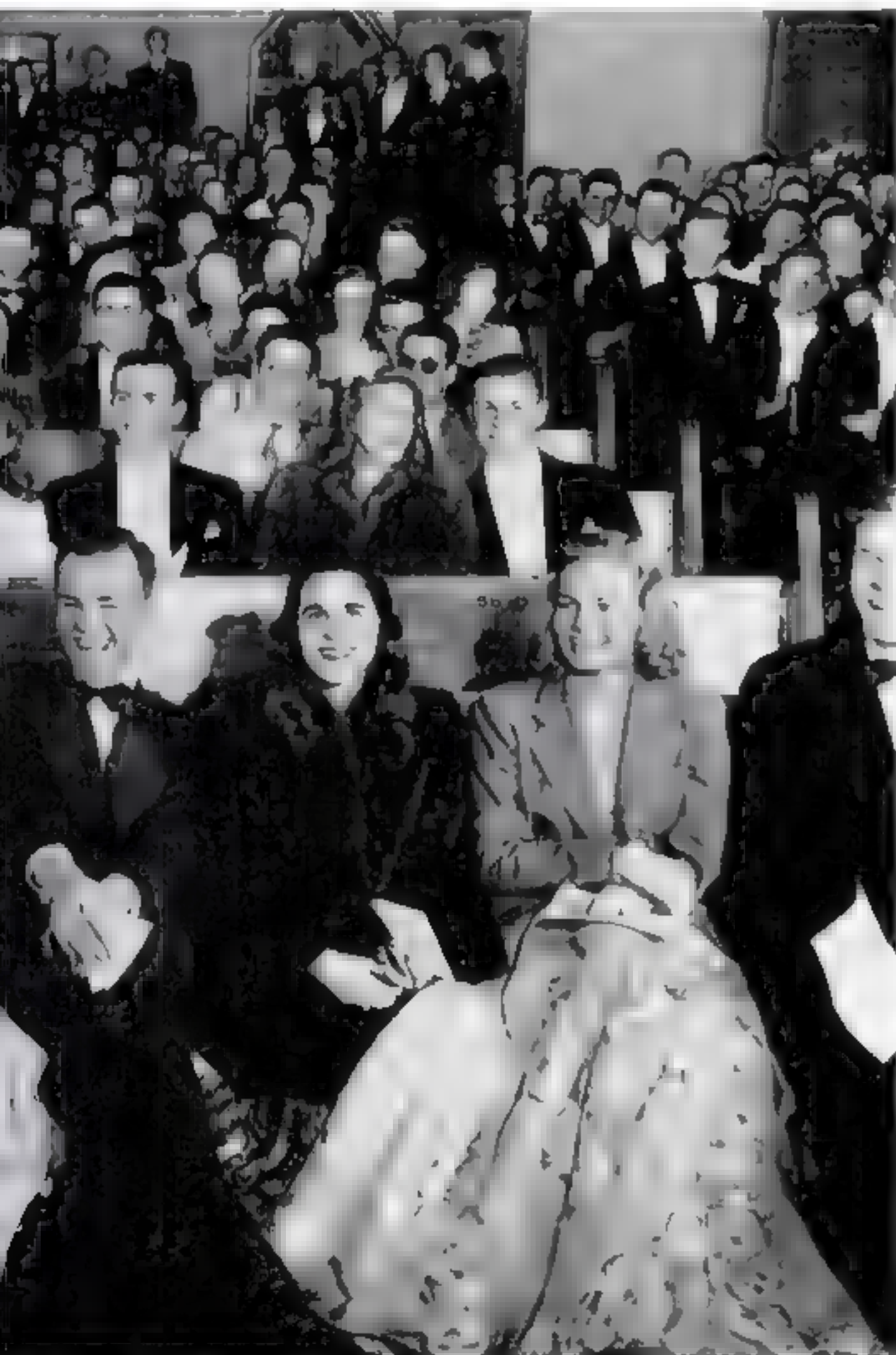
School President Benjamin Arnold, 19, a senior at Hill Country High School, said the school board meets regularly on the first Monday of each month at 7 p.m. in the school board room, which is located in the school's main building. The school board is responsible for the school's budget, curriculum, and other matters. The school board also elects the school principal and approves the school's policies. The school board is made up of seven members, including the school principal and six community members. The school board members are elected by the school's voters. The school board meets in the school board room, which is located in the school's main building. The school board is responsible for the school's budget, curriculum, and other matters. The school board also elects the school principal and approves the school's policies. The school board is made up of seven members, including the school principal and six community members. The school board members are elected by the school's voters.



At prom time Laurentius put on white tux and black ties and gave their girls a busy weekend. The schools' social calendar was packed with a cross-country prom, spring



Chapel is compulsory. Nonsectarian Sunday service combines Congregational overtones with a veated choir and procession. Sermons are trenchant, singing full-lunged



prom and show. Here you see boys and dates laughing at a line in the 1941 spring show, written and produced by the school's popular chaplain, the Rev. Erdman Harris.

DOES YOUR *BACK ACHE?

Has your doctor found—

Sacro-iliac sprain?

Ptosis? Hernia?

A Breast problem?

Or have you had

an operation?



WRONG CORSET

IN HER SPENCER

In wrong corset note lack of support to abdomen and back, encouraging poor posture, backache, bulges.

Same woman in Spencer Supporting Corset, posture is improved, backache relieved, bulges gone.

***Backache** may have many causes. When not due to disease, a Spencer, designed to support abdomen and back and improve posture will give blessed relief. Don't let a bothersome backache wear you down and take the joy out of living! Find out what a Spencer can do for you. Persistent backache should have immediate attention of your physician.

Sacro-iliac Sprain causes pains in back or legs. For its relief, thousands of physicians prescribe a Spencer designed with a concealed sacro-iliac band and pad. This sprain may be caused by accidents as slight as a sudden, awkward movement of the body.

Ptosis (sagging) of abdominal organs is indicated by indigestion, faulty elimination, backache, nervous fatigue. For Ptosis a light, flexible Spencer with inner support is designed to uplift abdominal organs. Do not assume you have Ptosis. See your doctor.

Hernia (rupture) should also be diagnosed by your doctor. If he advises a support, a soft and flexible Spencer with no hard parts will give relief and safe support, that will not yield under strain.

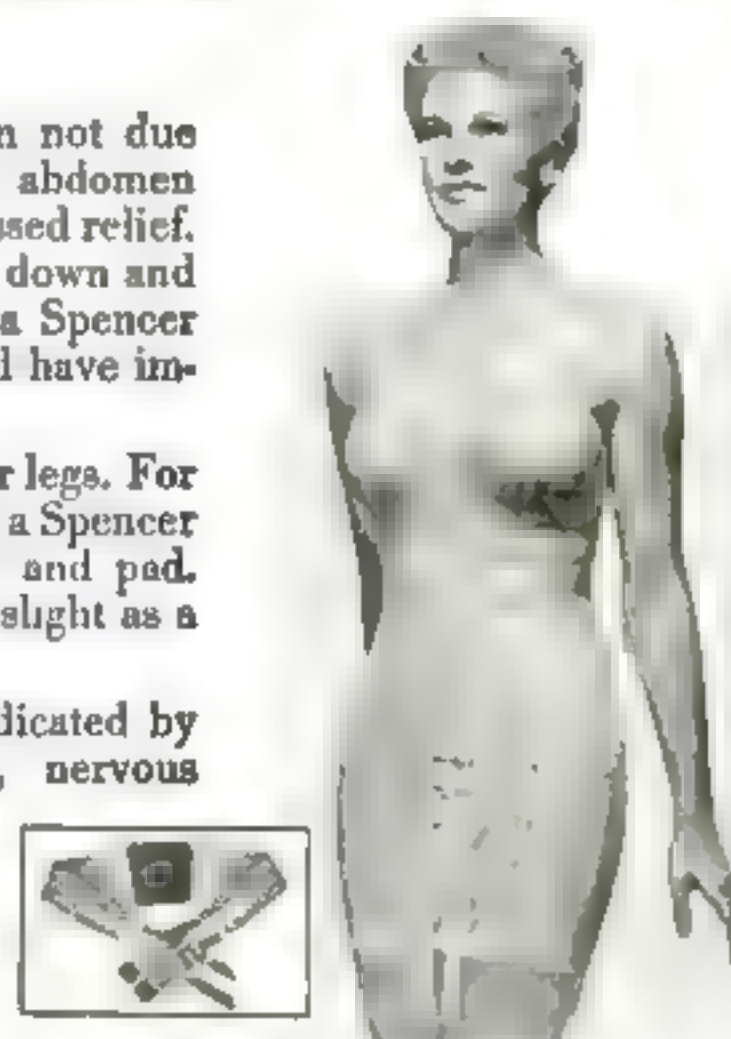
Floating Kidney may be relieved by a light and lovely Spencer with inner support, worn with approval of your doctor.

Breast problems—prevalent among young girls as well as older women—require a Spencer brassiere designed to support sagging breasts, improve circulation, restore contour and guard against unhealthful conditions.

After an operation or for maternity wear, flexible Spencers with special support are prescribed by physicians.

Spencer Corsetieres never diagnose health conditions or prescribe for them. All Spencer Surgical Supports are designed to aid the treatment of attending physician.

For whatever purpose your Spencer is desired—



SPENCER SACRO-ILIAC CORSET

Under this smart foundation is concealed the simple band and pad shown in inset.

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Have a Figure Analysis—Free

At any time, a Spencer Corsetiere, trained in the Spencer designer's method of figure analysis, and measurement-taking, will make a study of your figure free. Send coupon below, or telephone your nearest "Spencer Corsetiere" for information. This will not obligate you.

Write Anne Spencer

Please send me your helpful booklet. I have checked my figure faults at right.

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October 21, 1941

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SPENCER INDIVIDUALLY DESIGNED Corsets and Brassieres

ARMY TESTS ITS NEW BARRAGE BALLOONS DESIGNED TO GUARD CITIES IN AIR RAIDS

Scenes like the ones on this page, taken near Akron, Ohio, are common place to Englishmen. Since the beginning of the war, big, rubber balloons have floated like lazy goldfish over London. Because of their hovering guardianship, Channel convoys have been safer from low flying plane attacks. They have kept bombers from the important Battersea power plant in London, though buildings for miles in every direction near it have been devastated.

If war comes to the U. S., similar balloons will float over New England factories and skyscrapers in New York. The U. S. Army recently ordered hundreds of them and has started a school for training men in their technique at Camp Davis, N. C. Barrage balloons are the possessions of the Coast Artillery, the only branch of the combat army that does not seek out the enemy for attack. Its purpose is to keep the enemy away from places he wants to attack. The balloon is ideal for work of this kind. When properly placed and anchored, spaced at varying altitudes, a group of barrage balloons can force enemy bombers to release their loads far from an objective. No plane will willingly come near their dangling steel cables that can shear off a wing in an instant. They are invaluable to anti-aircraft gunners because they keep planes high in the air, where the range of sound detecting apparatus is truer. They can be used to block a clearly defined route to a target. Thus barrage balloons might be strung across the Potomac River which, on a moonlit night, is a shining pathway to Washington. But their greatest aid is in reducing the air space to be defended by fighter planes. When balloons are over a city, a fighter force need not worry about its defense but can go out and intercept attacking bombers.

At Camp Davis, men are already proficient in their use. Day after day they go out in the scrub pine to put the behemoths into the air. Some men specialize in inflating the bags with cylinders of hydrogen; some tend the winches and anchors that keep the balloons in position. Others forecast high winds that might tear them loose from moorings. Only casual ty so far has been an errant balloon that snapped its cable, started up light and telephone service near Wilmington, N. C. with its hanging wire.



Anchoring a balloon requires a crew of strong men. Balloon of this kind, called "lute type," holds 25,000 cu. ft. of hydrogen and can rise straight up to a height of 7,000 ft. on clear day.







Exposed to Japanese fire, across the No-Man's land of two-mile-wide Yellow River, Chinese soldier at Tungkwai prowls along 30-ft.-high city wall with ramming up willow branches and hand grenades.

On Yellow River shore, roof of machine-gun post is covered with soil. Trench parallel to river connects posts and deep trenches run back toward the walls of Tungkwai.



VITAL CHINESE FRONT

ADVANCE GUARD OF A VAST NEW CHINESE

Deep in China, along the banks of the Yellow River is the eroded northern front in China's war against Japan. And there this summer went LIFE's Photographer Carl Mydans to take the pictures on these pages. The Yellow River front is hard and uncomfortable to get to. Somewhere along the way Mydans picked up a case of amoebic dysentery, a recurrence of an attack contracted while photographing the Finnish-Russian War for LIFE early in 1940.

The citadel of Tungkwai is now, as it has been for thousands of years, key bastion of China because it holds the gateway toward Chungking and the supply line from Soviet Russia. Right here a Japanese advance could do more hurt to China than anywhere except across the Burma Road.

Sure enough, 200 miles to the east of Tungkwai, the Japanese last week crossed the Yellow and New Yellow rivers and grabbed Chengchow, the northern supply crossroads. They were then on the Langhai Railway headed straight for Tungkwai on the south bank of the Yellow River. Once before, in May, they had beaten the armies of General Wei La Huang in a sad and short-lived surprise capture of the 400-mile spit of land 40 miles north of the Yellow River. But last week they were a good 100 miles from Tungkwai, 100,000 of the toughest best-trained and best-armed soldiers in China, the 26 divisions of General Hu Tsung-an, of the First War Area.

Last week's action at Chengchow amounted to a threat to the flank of General Hu, whose front, mainly, faces the Japanese across the Yellow River. At Tungkwai the Yellow River is two miles wide, a dangerous, swirling rapids. Photographer Mydans was sniped at from the Japanese positions on the east side across the river. The Chinese and Japanese trenches both are dug along the riverbank. From the parapets of the 30-ft. city wall of Tungkwai, Chinese machine gunners and riflemen cover the river.

Farther back, under city wall Chinese outpost faces Japanese positions on the east side of Yellow River. Arms at Tungkwai are far from equal to superior U. S. and German equipment. Rifles are German.



DEFENDS YELLOW RIVER

ARMY IN TRAINING FACES THE JAPANESE

Photographs for LIFE by Carl Mydans

crossings. Japanese shells plump constantly into the city and the trenches. Of Tungkwang's 40,000 citizens, only 1,000 "cellar rats" remain. But 30,000 Japanese shells in three years have missed the railway bridge behind the city. Passengers on the Lunghai Railway get out and walk for ten miles in a ditch beside the railway to get past Tungkwang and the Japanese guns. A constant flow of smuggled goods from Japan and Shanghai comes this way.

The actual front is lightly held, as is the Chinese custom. The main body of five divisions is five miles back, in such little valleys as that at right, like an orchestra pit in the mountains. The troops are clean, hard, tough North Chinese, fed on bread, vegetables and hot water. They are contemptuous of the Japanese fighting qualities, respectful of their enemy's weapons. They themselves have the best arms that China owns, Russian, Finn, Czech and German. This outpost is better armed than a U. S. Army outpost would be. But its supply of weapons has now almost stopped, may start again from the U. S.

Elsewhere in China the four-year war twitched in sharp spasms, as though somebody wanted to get it over with one way or another before the German army and American aid arrive. In central China five Japanese divisions made a great fuss about capturing Changsha, a southern crossroads, and then vacated it "to spare themselves" the sight of Chinese peasant suffering. Each side claimed the other had lost seven divisions, but probable losses were almost nil. A real Chinese victory was won when the Chinese fought into Ichang, farthest Japanese point on the Yangtze River for a year.

For the great modern army of the future that the Chinese are training—in the vital northern triangle between Chungking, the retreating Russians and the advancing Japanese—turn the page.

On parapet, Tungkwang front troops pose with a superb Finnish light machine gun, captured and supplied by Soviet Russia, Czech Mauser rifles and homemade grenade-thrower (right), ranging 200 yd.



Behind the lines, under the picture of Chiang Kai-shek on cliffside (top, left), a battalion commander lectures on China's greatness, sanitation, discipline to men sitting on mud benches. Men live in caves.

Anti-gas chamber, behind studded city gate in the heavy stone walls, has room for 90 men. Finnish light machine gun is one of the best in the world. Pistols are homemade.







Tough North Chinese of 19th Regiment at Sian branch of Central Military Academy parade in spanking bent-knee goose step. Other speeds are dogtrot and route march.

CHINA'S YOUNG MEN TRAIN TO KILL JAPANESE AT ONE OF ITS NINE WEST POINT ACADEMIES

Almost unnoticed, China is today organizing one of the biggest and best-trained armies in the world. Shown here is just one, the seventh and biggest, of the nine branches of the Central Military Academy, now training young officers. This one has 10,000 students. All together, the nine are now training 30,000 new officers—about half the total of all U. S. Army officers. This branch academy is at Sian, only 60 miles behind the front at Tungkwan, seen on the preceding pages. Hereabouts is a Chinese army of 20 divisions and 300,000 men, just where the Japanese would like to cut the cord between China and the U. S. S. R.

These pictures show the glistening spit and polish, the sharp aggressiveness of this great West Point in the depths of China. On the opposite page, 14 cadets between 18 and 25 live in one clean cave, sleeping on an adobe shelf bed (*k'ang*) covered with straw, a single long sheet and Chinese comforters. Packs, binoculars, helmets, caps are precisely laid out. These are regular cadets, finishing a two-year course to graduate as "first lieutenants" (U. S. second lieutenants), become captains after two years of fighting. They are 100% literate, mostly graduates of junior high schools. About 80% are farm boys, the rest from merchant, professional, army and worker families from every province of China, but mostly from the north. Many have been recruited in occupied territory by Chinese agents. They get up at 4:15 a. m., study until 8, breakfast, study until noon, rest until 2, drill and have their second and last meal at 4:30. They are in bed by 8:30. They get 15¢ a month and their food costs about \$1 a month (see pp. 108-109). They use Russian rifles, native pistols and heavy machine guns. Their equipment comes mostly from Chinese co-operatives, though half the goods in Sian are smuggled through from Japan or Shanghai. Some of them expect the war to go on for 20 years.



"To live on land," Sian cadets learn to raise and herd ducks (above), grow vegetables, compete for best products. In action, they may have to support themselves this way.

CONTINUED ON NEXT PAGE

Glamorizing 1-MINUTE Mask



IS YOUR SKIN drab looking? Often really lovely skin looks that way because tiny dry, dead surface cells and tight-sticking dirt particles are hiding its beauty.

SMOOTH Pond's Vanishing Cream thick over face and throat (except eyes). Leave 1 full minute. Wipe off. Its "keratolytic" action gently dissolves and loosens such dried cells and dirt particles.

NOW—see how much fresher, lovelier your skin is. How much softer it feels... how much clearer it looks—in just 60 short seconds with this new 1-Minute Mask!



Yes, It's Adorable— the new lovelier LOOK of your skin—the new softer FEEL—after this 1-Minute Mask with Pond's Vanishing Cream! It's a real beauty "find" that women everywhere are telling their friends to try! So quick! So easy! So glamorizing!

Try it—see for yourself how much brighter, fresher your skin looks—softer it feels! Use after cleansing your face—in the morning, evening or during the day.



Society Beauties Love 1-Minute Mask

"I'm thrilled with the new 1-Minute Mask," says Mrs. Anthony J. Drexel, III (above), famous society beauty. Mrs. John Jacob Astor, Mrs. Nicholas Ridgely du Pont and other well-known beauties who have been regular users of Pond's Vanishing Cream as a velvet-smooth powder base are delighted by this new way of using it as a glamorizing 1-Minute Mask.

Powder Base, too. And remember, *always* before powdering smooth Pond's Vanishing Cream lightly over your face. It gives your skin a lovely mat finish that holds your powder for hours with exquisite smoothness.

Get POND'S Vanishing Cream right now! Treat your face to this new 1-Minute Mask. Send coupon for generous free sample!



FREE! 1-MINUTE MASK—

POND'S, Dept. 21-VK2, Clinton, Conn.

I'm eager to try the new Pond's 1-Minute Mask famous society beauties enthuse over. Please send me FREE—enough cream for one 1-Minute Mask.

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Address _____

This offer good in U. S. only



'Tis agreed!

... For relaxing pause
or joyous celebration, men
have a persuasive reason
to call for Teacher's ...

*'It's the
flavour'*

Made since 1830 by Wm. Teacher & Sons, Ltd., Glasgow



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Chinese front (continued)



Breakfast at Sian Central Military Academy gives each six-man table six ounces of bread, four ounces of vegetables, one bowl of soup, and so on. Let's see what it's like.



Cheer for Generalissimo is religiously given every morning at 4:30 a.m. roll call. All the instructors once studied at Chiang Kai-shek's own Whampoa Military Academy.

What Other Cigarette Has All 5?

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choice mild smoking
imported and domestic
tobacco

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ter filter the smoke

3. Vacuum-Cleaned to
remove small tobacco
particles

4. Rolled in expensive
Champagne Paper

5. Modern Price, your
savings will buy a new
camera, radio or other
luxuries you've wanted



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Comfort

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The ingenious self-conforming
Ultra-Eze adjusts itself to the
contour of your head. The
Stratton is a comfort to wear
from the very first day. Re-
tains its shape.

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FIFTH AVENUE . . . NEW YORK



Cadets rest two minutes. On this they can march 30 miles a day. They are heavily indoctrinated with love of Generalissimo Chiang Kai-shek and their own General Hu.



the mother school. Besides cadets are regular officers come back for refresher course and soldiers who have worked up from the ranks. Entrance examinations are stiff.

Some Do, Some Won't!

1. "Say, lazybones...don't you have to *work* to get that Figure-A? peal?"



2. "Not when a Munsingwear 'Foundette' does such a slick job! Ever hear of this 3-Way Control? Smooths you like satin. Helps mold you in better posture. Yet the 'Foundette' feels part of you...it's so comfortable!"



3. "Foundette" full-length \pm 1339 (above): "Lastex"® Leno fabric with satin "Lastex"® bands, for average figures. Three bust sizes Junior, Average, Full. At better corset departments everywhere. Munsingwear, Inc., Minneapolis, New York, Chicago.

MUNSINGWEAR

Foundettes

FOUNDATIONS FOR AGES 14 TO 40



JUAN TRIPPE

PAN AMERICAN AIRWAY'S YOUNG CHIEF HELPS RUN A BRANCH OF U. S. DEFENSE

by NOEL F. BUSCH

In the New York office of Juan Terry Trippe, 42-year-old president of Pan American Airways, the most conspicuous piece of furniture is a huge, old-fashioned terrestrial globe. Trippe acquired this in 1930 and has used it ever since, checking new routes with parcel string, of which his secretary keeps a supply on hand at all times. Pan American's expansions have been frequent. The globe's axle now squeaks loudly and the whole apparatus, if it were part of Pan American's flying equipment, would long ago have been sent to a repair base. This does not bother Trippe at all, as he proved conclusively last spring.

Returning on one of his own Clippers from a hurried visit to London in June, Trippe spent most of his flying time working on possible solutions to Britain's problems in 1) ferrying fighter aircraft from the U. S. and 2) communicating with the Middle East. On reaching the 58th floor of the Chrysler Building, he sent for his string and for his assistant, John C. Cooper Jr., who trundled his own smaller globe into the president's office, fished a thread out of his own pocket and settled down for a conference. The two men spent the next hour measuring off courses from the hump of Brazil to spots like Monrovia, Bathurst, Freetown and Léopoldville. By the time President Roosevelt was ready to talk plans for running a Pan American service across the South Atlantic to the Sudan, Trippe had already issued instructions for in-

stalling it. By September, when the President announced that Pan American would fly lease-lend planes to Khartoum, Trippe felt prepared to hope that the new line might be in effect within 90 days. Actually, the first Pan American flight on the new route will probably leave Miami this week.

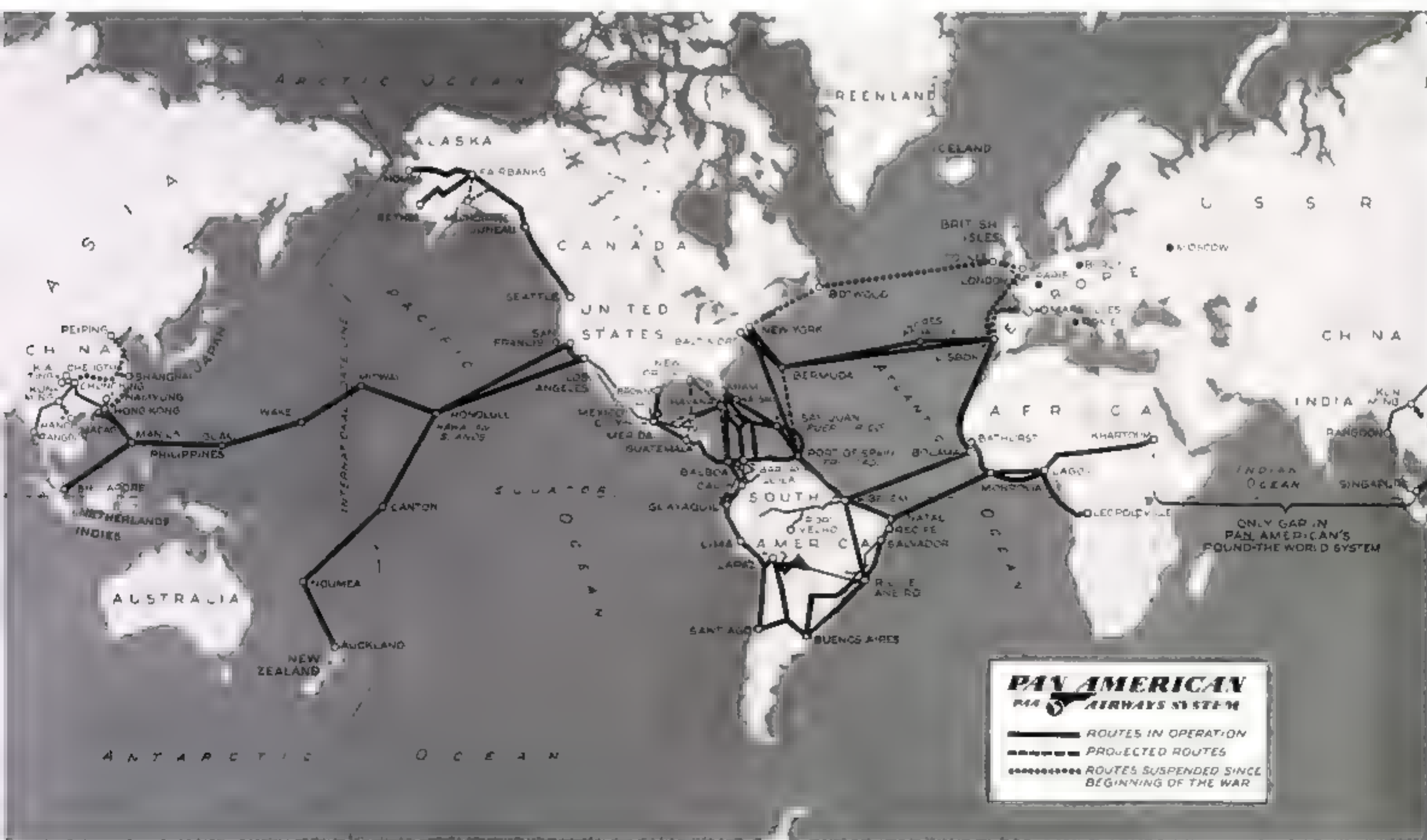
Trippe's latest display of his ability to transfer an extrahemispheric enterprise from blueprints to blue water on short notice was characteristic. Pan American's business record for 14 years has been based on just such readiness to go into action before its competitors can draft a budget. The company started in 1927 with a 90-mile mail route from Key West to Havana. It now has routes on five continents over which it carries 400,000 passengers and 2,500,000 lb. of mail a year. The original investment in Pan American was less than \$500,000. It now pays out \$15,000,000 a year to 10,000 employees in 63 countries. It owns 160 planes with a value of about \$22,000,000 and has 40 more at \$500,000 each on order. In 1940 it earned \$2,250,000 on a capitalization of \$23,750,000. Like most of Pan American's profits, this was ploughed back into the company; so the company has paid out only \$4,300,000 in dividends. As a common carrier, Pan American is eclipsed by domestic airlines which fly greater frequencies on shorter routes. For total route mileage, it is in a class by itself with 90,000 miles and 322

airports—twice as long as the ten largest domestic airlines put together.

Pan American's purely commercial accomplishments are impressive. It is not, however, as a business that Pan American is chiefly important at the moment, except insofar as its value to the U. S. may justify private enterprise as a means toward public benefactions. Pan American, as indicated by its latest move, also functions even more importantly as a branch of the defense effort. It does this so effectively that it has sometimes seemed that the rest of the defense effort, still largely composed of creaks and groans in Washington, should become an arm of Pan American.

Pan American's contributions to defense come under the three frequently overlapping heads of propaganda, secret service and communications. World War II vastly increased the U. S. need for, and diminished its means of, crossing the oceans fast. Pan American Clippers, opportunely installed, put Lisbon within 27 hours and Manila within six days of Washington at the precise juncture in history when this improvement was most essential. In South America, where it operates out of a total of 251 airports which might serve as emergency bases in wartime, its shiny planes are a familiar sight to Indians who have never heard of Franklin Roosevelt and its personnel amounts to a kind of informal state department. In China, the China National Aviation Corp., in which Pan

CONTINUED ON NEXT PAGE



Pan American Airways now circles the world except for a comparatively short hop between Singapore and the Middle East. Post-war plans call for vastly increased flight frequencies. Cur-

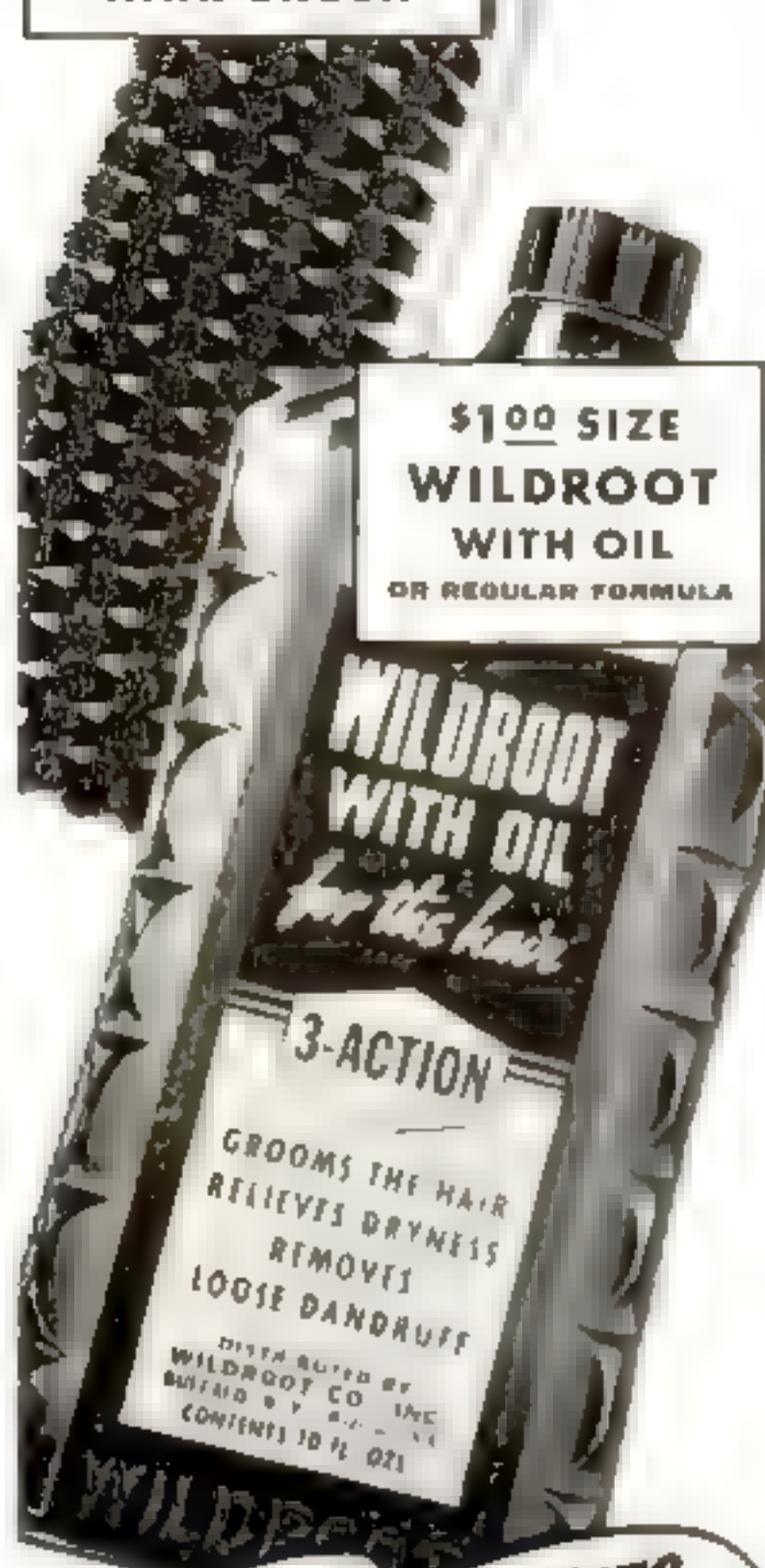
rent routes will serve as trunk lines to be supplemented by shorter additions to take care of local passenger and express trade. England's Imperial Airways is Pan American's chief

foreign competitor. Its first U. S. rival hopes to start flights to Europe by next January. Meanwhile, Juan Trippe finds helping the U. S. Government no handicap commercially.

1/2 PRICE SALE

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79¢
TRANSPARENT
PLASTIC BACK
Pro-phy-lac-tic
HAIR BRUSH



REGULAR VALUE \$1.79
BOTH FOR **89¢**

Limited time only!

Bargain Combination Offer includes 79¢ Pro-phy-lac-tic Hair Brush and \$1 size Wildroot-with-Oil or Wildroot Regular Formula (non-oily)... a \$1.79 value. Both for 89¢! Genuine Pro-phy-lac-tic Hair Brush has gleaming transparent plastic back and handle. Famous 3-Action Wildroot-with-Oil grooms the hair... relieves dryness... removes loose dandruff. Get both brush and Wildroot from your drug store today at special 89¢ price! If dealer's stock is exhausted, send 89¢ to Wildroot Co., Buffalo, New York.

PROFESSIONAL APPLICATIONS AT YOUR BARBER



Trippe's two desks are used intermittently. The flat one in front is for show, roll-top one in rear for private work. Trippe commutes by plane, his office hours are prodigious.

TRIPPE (continued)

American has a 45% interest and whose planes fly by day only when the weather is so bad that Japanese pilots cannot see them, serves the same purpose. The bomber ferry service to Africa is the most spectacular instance of Pan American's value as a quasimilitary force, serving several of the objectives often put forward by proponents of a separate air corps. Equally important is the fact that regularly scheduled Clipper flights across both oceans are currently so packed with Government agents, military observers, official missions and ordinary U. S. spies, traveling under their own or other people's names, that four-star foreign correspondents are regarded practically as stowaways.

Trippe has no official status

By its U. S. critics, Pan American, despite its services to the Government or even perhaps because of them, is naturally viewed as a dangerous monopoly because no other U. S. airline flies any of its routes. On the other hand, from a broader point of view, it is less remarkable that Pan American is the only U. S. company in its field than that the field itself was not kidnaped by the Government long ago. Extraterritorial airlines in England, Germany, Italy, France, Holland and Japan were all government-controlled even before the war. Even now, however, Trippe has no official status and, when not helping the Government with his right hand, is likely to be fighting it with his left. The reason why this paradoxical state of affairs is permitted was neatly expressed recently by a friendly Senator who, after listening to Trippe argue his claim for increased air-mail subsidies, remarked: "If we ever do take over the airlines I only hope we can get Trippe to run them for us." The Government prefers not to do so for a simple reason: the present arrangement works extremely well.

Two recent examples of Pan American's ability to beat Germany's Lufthansa at its own game of undeclared war in South America are cases in point. Unlike the U. S., Germany permits, and in fact encourages, its nationals to hold simultaneous citizenship in all other countries. In 1937 Brazil passed a law requiring that all pilots and crews of non-Brazilian airlines flying over Brazilian territory be Brazilian citizens. In effect, this meant that while Lufthansa's domestic lines could continue using their German personnel, Pan American would have to hire a staff composed exclusively of real Brazilians. Had the U. S. State Department been forced to fight this situation through official channels, a serious commotion might have resulted. Working through Pan American's Brazilian representatives, Trippe was able quietly to persuade the Brazilian Government that the proper meaning of the new statute lay in an interpretation whereby, while extraterritorial lines might be operated by their own nationals, internal airlines must be manned by native-born Brazilians. This meant that Pan American, which was already using Brazilian-born personnel on its interior lines, could go on using U. S. personnel on its through routes. It also meant that the German company, which had concentrated on interior lines, had to be completely restaffed, to the mutual satisfaction of Pan American and Sumner Welles.

In Colombia, where the German-staffed SCADTA lines operated so close to the Canal Zone that an armed U. S. secret-service agent traveled incognito on its planes to make sure the pilot followed his proper course, Trippe operated more dramatically. Already in possession of some SCADTA stock, he used it to gain active managerial control of the company. Last spring, on the night of June 11,

"You look great now, Dad—but how come it took so long to realize your trouble was ordinary constipation?"

"Knew it all the time, Dick—but it's just recently I've known about taking

Nujol

CONSTIPATION is not created overnight—certainly it should not be purged overnight by violent methods that high-pressure you and leave you "woozy." A tablespoonful of odorless, tasteless Nujol each night and morning establishes effective intestinal lubrication, gives continuing relief from ordinary constipation. Not "just another" mineral oil—Nujol's viscosity is scientifically controlled to give best results. Get a bottle at the druggist's.



DON'T WASTE TIME!
RELIEVE THAT
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Get quick, comforting relief from headaches with "BC." This prompt-acting remedy dissolves rapidly and relieves in a hurry. Follow the simple directions on the package. For pains that persist consult a physician.

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DROWSY?

Easy to take tablets for sleepy drivers, office fatigue, overindulgence, harmless as coffee.

Keep Alert with
NODÖZ
AWAKENERS

At your druggist—10¢ 25¢ 50¢

CONTINUED ON PAGE 115

*Her eyes have it—but you look
at her smile!*



Eye-Camera reveals
which beauty-features
impress others most



MOUTH—first
EYES—second
HAIR—third
SKIN—fourth

When you talk, when you smile, people watch your **MOUTH**, according to the amazing Visual Research Eye-Camera*. This precise scientific instrument photographically records eye-movements. The linked dots average the all-seeing scrutiny of 100 pairs of male and female eyes. Could you pass such an examination? You *have to* daily!

* Copyright 1941 by The Visual Research Laboratories

Dr. West's Miracle-Tuft

*the beauty buy of a generation—the finest
tooth-cleansing instrument ever made*

Can you meet the critical gaze of others with confidence? *Not unless your teeth are sparkling clean!* For the Eye-Camera shows that what people notice most is your mouth, your smile.

With a Dr. West's Miracle-Tuft you can be certain of keeping your teeth clean and bright. Only this superior tooth brush offers "EXTON" brand bristling—*water-proofed* by

a special patented process. It won't shed bristles, won't get soggy. Only Miracle-Tuft is sealed *surgically-sterile* in glass—germ free. And millions of users have proved it will give a full year of effective service.

You'll find Miracle-Tuft at drug counters in a choice of textures in the Regular, Professional and Oro shapes. Get this miracle brush for miracle loveliness today.

Miracle "EXTON"

"Exton" Brand Bristling is water-proofed, anti-soggy!

Miracle PACKAGING

It's the only *surgically-sterile*, sealed-in-glass toothbrush!

Miracle SHAPE

Correct, patented, original—long the world's favorite!



50¢

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EFFECTIVE CLEANSING

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At country club

...or country store

America's most distinguished beer is waiting for us just about anywhere we ask for it • Some drink it in costly crystal at fashionable country clubs. Some buy it across the counter in friendly country stores • That famous flavor found only in Schlitz knows no class distinction. It's one of life's finer things that everybody can afford. Lovers of good beer the world over ask for Schlitz. There is no substitute for a beer so fine it made a city famous.



IN BROWN BOTTLES, CANS, AND ON DRAUGHT

THE BEER THAT MADE MILWAUKEE FAMOUS

Copy, 1941, J. I. Schlitz Brewing Company, Milwaukee, Wis.





At Horta, the Azores Clipper passengers in winter of 1939 sometimes waited as long as three weeks for rough water to subside. This often made passengers bored and surly.

TRIPPE (continued)

SCADTA's German personnel was quietly fired en masse, with enough pay to compensate them for the loss of their jobs. A new U. S. personnel, imported ostensibly to train Colombian personnel, took over so smoothly that not a single scheduled flight had to be canceled on June 12. The training of Colombian personnel was not entirely a blind. Backed by the State Department, Pan American set out to help Colombia develop a national airline jointly owned by Pan American and the Colombian Government. Similar ventures furthered by Pan American's West Coast affiliate, Panagra, were successfully completed in Bolivia and Ecuador. By means of commercial co-operation with the Civil Aeronautics Board and the RFC, which helped finance the nationalization of Axis-run lines, Germany's strong bid for airline-supremacy in South America has been effectively canceled.

Lufthansa was a dangerous rival

German airlines in South America and elsewhere can be called a fifth column only by courtesy. Actually, Lufthansa operated more simply as an arm of the Luftwaffe, to which its personnel from pilots to directors are eventually responsible. What makes Pan American's ubiquitous operations acceptable to South American governments—which would be greatly alarmed if the U. S. Army started similar moves—lies precisely in the fact that it functions unofficially. Despite the fact that he is a key figure in Washington, where he currently spends much of his time, Trippe is patently not the U. S. equivalent of Reich Marshal Göring. The efficacy of his company under these conditions is a unique tribute to the democratic way of doing things and one which South America is well equipped to understand.

To call Pan American Airways a case of private enterprise is in one sense a shocking understatement. For the first ten years of its existence it was run by Trippe as a strictly one-man show so private as to be practically a secret. Even now the amount of attention Pan American receives in its native land, in sharp distinction to its prestige through the rest of the world, is small compared to its desserts. One reason the U. S. is not better aware of Pan American is that the company's activities have by definition been conducted far away and so thoroughly scattered about that no news-gathering machinery could keep up with them. Another and perhaps more significant

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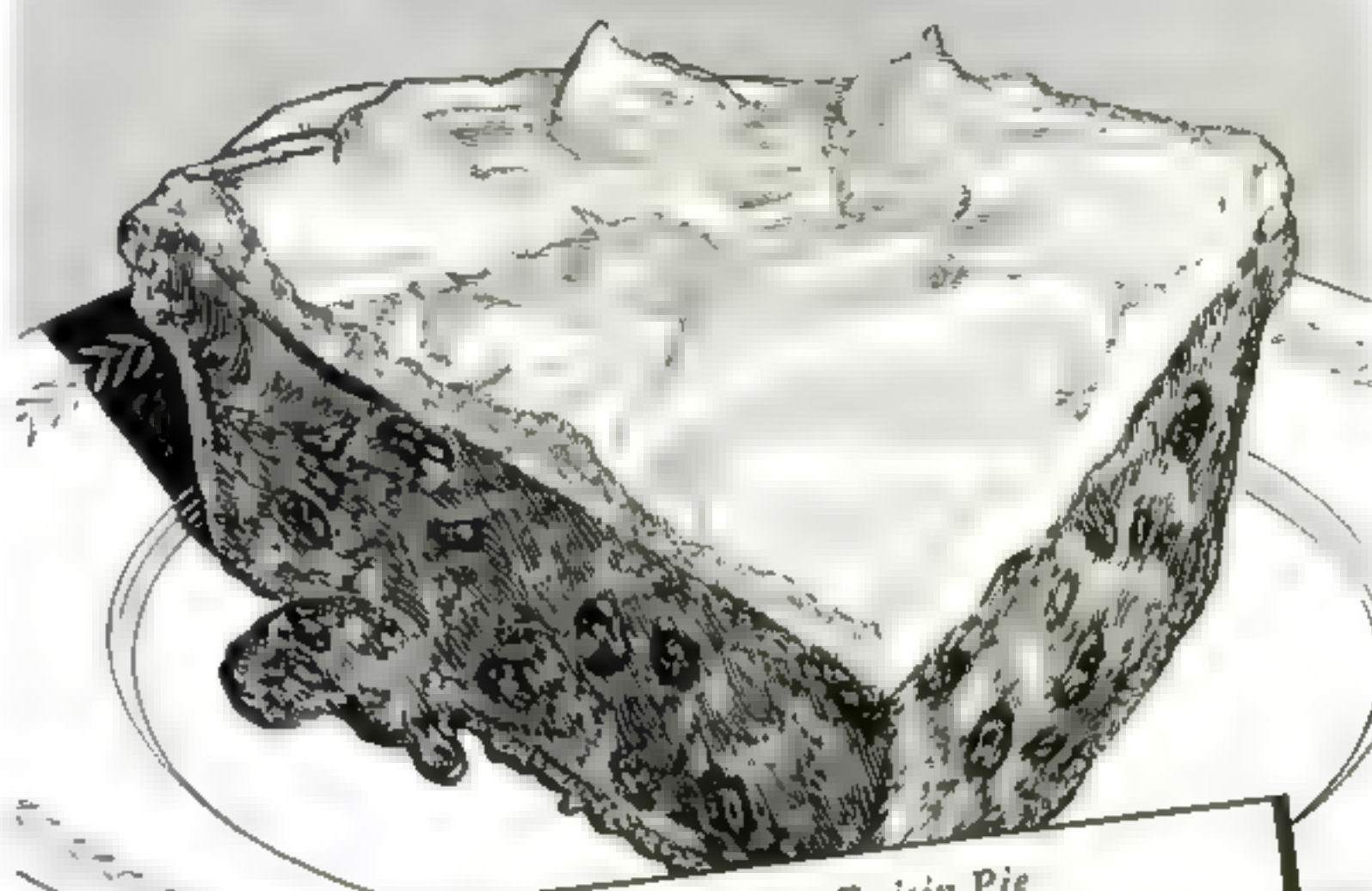


At Bolema, Portuguese West Africa, Pan American installed an airport in 1940 for use when the North Atlantic route was stormy. Winter service now is quite dependable.

How to satisfy the "inner man"



Here's a dessert men really go for—it's easy to make, too!



SUN-MAID Raisin Pie

- | | |
|---------------------------------|--|
| 1 cup Sun-Maid Seedless Raisins | 1 tablespoon butter |
| 2 cups milk | 1 teaspoon vanilla extract |
| 1 cup brown sugar | 1 package (very small) instant pudding mix |
| 1 tablespoon cornstarch | 4 eggs |
| 2 eggs | |

Rinse and drain raisins. Soak 2 cups milk in top of double boiler. Mix sugar with cornstarch, mix over with 1 cup milk and cook 5 minutes and blend thoroughly. Pour in hot milk and cook 5 minutes. Stand until thick and smooth. Add raisins, vanilla extract and heat well. Remove from heat, add flavoring and stir to blend. Pour in instant pudding mix. Spread with meringue made of egg whites plus a pinch of sugar and bake about 30 minutes in a slow oven—350 degrees F. Serves 4 to 6.

Do yourself proud! Treat your menfolk to the most satisfying, thoroughly appetizing dessert they ever sank their teeth into. It's raisin pie—good old fashioned raisin pie made with tender, luscious Sun-Maid Raisins!

Most housewives know that plump, juicy Sun-Maid Raisins are ready for instant use—that they have no seeds and require no washing.

The pre-digested, non-fattening fruit sugars in Sun-Maid Raisins supply quick energy; their generous iron content makes good red blood. Too, Sun-Maids contain Vitamins A, B and G.

P. S.—"Penny Sun-Maids": now at your grocer's. Take the pennies of your change in handy packages of new "Penny Sun-Maids"—ideal for box lunches and between-meal snacks.



Send for my 54 recipes... free

MAIL THIS COUPON NOW

Clip and mail this coupon today for 54 delicious recipes made with sun-ripened Sun-Maid Raisins from California's finest vineyards. Address Sun-Maid Raisin Growers Association, 2806 Hamilton St., Fresno, California.

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Since the day—over a century ago—when a member of the Cinzano family first came upon its magic formula—this magnificent vermouth has spread to the four corners of the earth.

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CINZANO

SWEET
(for aperitif
[before meals]
or cocktails)
alcohol 15.6%
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cocktails)
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MADE SINCE 1816

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GOOD BLADES
HAVE TO BE
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Shave and Save with Marlin
Blades! Sold everywhere

DOUBLE EDGE
20 for 25¢
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Marlin Blades

Lips Guilty of
"UNNECESSARY
ROUGHNESS?"



Why pay the penalty of rough, sorely-chapped lips? Medicated Chap Stick brings quick, soothing relief. Use before exposure to sharp, wintry winds—there'll be no painful reminder. "Stick" or "Pipes" (one for each member of the family)—25¢. For FREE sample, write Chap Stick, Dept. E-12, Lynchburg, Va.

Chap Stick

ROMEOS



Don't let your love-making be spoiled by a cough due to a cold... Keep Smith Brothers' Cough Drops handy. Black or Menthol, just 5¢.

Smith Bros. Cough Drops are the only drops containing VITAMIN A

Vitamin A (Carotene) raises the resistance of mucous membranes of nose and throat to cold infections, when lack of resistance is due to Vitamin A deficiency.



TRIPPE (continued)

reason lies in the behavior of Trippe himself. In running his vast enterprise, Trippe has usually discouraged U. S. publicity about himself. He has, furthermore, kept himself so completely in sole charge that until recently not even his own board of diligent directors was always fully aware of what the company was up to.

Trippe's enthusiasm for privacy is partly temperamental and partly the consequence of an environmental mishap which hampered him at the outset of his career. At that time the U. S. aviation industry was populated chiefly by overenthusiastic ex-war pilots and barnstorming fliers whose dreams of expansion were vivid but impractical. Bankers naturally developed a phobia of such characters, classifying them as "birdmen." Trippe is now regarded as a hardheaded, if not actually tight-fisted, executive and his forte is considered to be management rather than operations. In the early 1920's, however, he seemed typical of the barnstorming, ex-war flier and when bankers began to listen to his dreams for the future, which were so grandiose as to put all those of competitors to shame, they put him down as the archbirdman of all time. Trippe did finally manage to start a company. He got fired as soon as a few of his visions became known to his superiors. Since then he has made a habit of running everything himself and keeping even his most innocent intentions dark as long as possible.

Trippe's methods get good results

Like his relations with the U. S. Government, Trippe's somewhat unusual relations with his company have been justified by results. Passenger flights across the North Atlantic began to look like a commercial possibility about 1935. Would-be competitors of Pan American were only slightly surprised at about this time when they discovered that Trippe had begun bargaining for landing rights in England as early as 1929, but even Trippe's employees were amazed at their president's reaction to this situation. Having ordered three ocean-going Clippers apparently for the run to Europe, Trippe suddenly announced that instead the planes would be used for flying the Pacific, starting six months after delivery of the planes. Most of Pan American's directors considered the Pacific route less profitable and more arduous than the Atlantic, but Trippe, who had attended to the necessary preliminaries without telling anyone, soon persuaded them otherwise. Service to the Far East—which is currently China's chief contact with the outside world—might well have been delayed for years had Trippe proceeded less surreptitiously. Trippe's current doings on the South Atlantic are also typical. Pan American was chosen for its service partly because, had the Army undertaken a similar venture, vast repercussions would have resulted on both sides of the ocean. Its performance of the chore was simplified by the fact that Trippe had secured a permit to land in Liberia a year before Washington suggested installing the new line.

Trippe's astonishing ability first to perceive what the future may bring and then to cope with it has given rise to a company legend that the globe in his office is actually made out of crystal and that he is now negotiating for landing rights on the moon. In point of fact, Trippe has never had the least need of fortune-telling paraphernalia and his present plans are obvious to anyone. Having given the orders to his amazingly competent engineering, operations and personnel departments to set up the African service within the specified 90 days, Trippe proceeded to new ground. Last week, he and Cooper

TRIPPE GIVES FARLEY AIR-MAIL BID



HAWAIIAN GIRL DRAPES HIM WITH LEI



DINES WITH COSTA RICAN ENVOY



YALE DIGNIFIES HIM WITH DEGREE



were busily stretching their strings between the Middle East and Singapore, Pan American's present terminus in the Orient. Long on the earth's surface, this distance looks less terrifying on the world of Juan T. Trippe. It is the only link required to make Pan American, already the longest airline on the earth, the only one that goes around it. The chance that Trippe will fail to bridge it in the immediate future is minute.

In dealing with foreigners, particularly South Americans and Portuguese, Trippe has been vastly aided by his Christian name. It suggests Latin origins and arouses hopes of a congenial temperament. Trippe has no Latin blood at all. He was named after a great-aunt-by-marriage by parents whose forebears were early settlers in Maryland. An early Trippe distinguished himself as a captain in the Battle of Lake Erie. The U. S. Navy has always included a war vessel named in the captain's honor but, except for an occasional voyage by a Trippe ship, the family's dealings south of the equator have been negligible. Trippe's father, a well-to-do investment banker of Seabright, N. J., sent his son to Hill School and Yale where Trippe played football, started a picture magazine called the *Yale Graphic* and acquired the nickname "Mummy" because he did little talking. Trippe's ability to sense trends in aviation showed itself early when he took to building model planes in 1910, some ten years before this pastime became generally popular among small boys. In 1915, stimulated by the war news, Trippe made up his mind to become a flier, and two years later did so, leaving Yale to enlist in the Naval Air Force. Trippe's graduation from mere flier to aeronautical arranger and executive took place in 1919 on his return to Yale after the Armistice. He founded the Yale Flying Club and, having won its opening meet, became its president.

Trippe started out with bargain planes

Trippe's professional debut in the aviation industry was delayed because, like most of his classmates, he became a bond salesman on leaving college. It occurred when, dissatisfied with his rewards in Wall Street, he chanced to see in an aviation trade journal an advertisement for nine unused Navy planes left over from the war. Trippe and several of his ex-Yale flying friends bid \$500 for the lot. No other bids were offered, and the ex-Navy planes became the rolling stock of a miscellaneous air service, which ferried passengers about Long Island, chartered planes to sportsmen and functioned intermittently for movie shots. Though Trippe worked on the planes and sometimes flew one himself, most of the actual piloting was done by hirelings. The company thrived until the planes disintegrated, whereupon Trippe, aided by some optimistic Boston bankers, helped start Colonial Air Transport Co., with \$300,000 capital, in 1924.

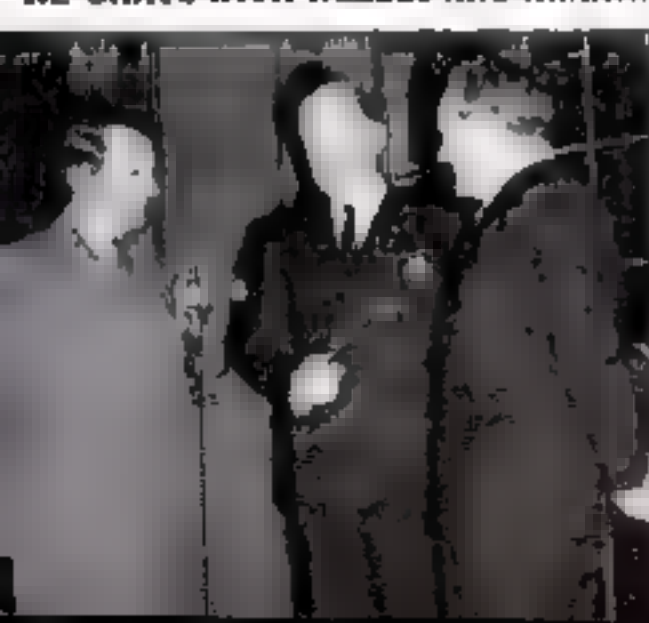
Trippe's misfortune in Colonial was understandable. No sooner had Colonial acquired a contract to fly mail between New York and Boston than Trippe as managing director proposed, as though this were the most natural thing in the world, that it expand by adding a route to Miami or Havana. Other officers, accustomed to thinking in terms of railroad spurs, found the logic of this move obscure. Patiently, Trippe explained that Colonial could thus corner the Eastern seaboard and be ready for the hop to South America. More alarmed than ever, Colonial ousted Trippe who thereupon founded his own company and carried out a vastly enlarged version of his plan while Colonial was disappearing from the scene.

CONTINUED ON NEXT PAGE

ROOSEVELT HANDS TRIPPE A TROPHY



HE CHATS WITH WELLES AND ARANHA



ICKES GIVES HIM PACIFIC ISLANDS



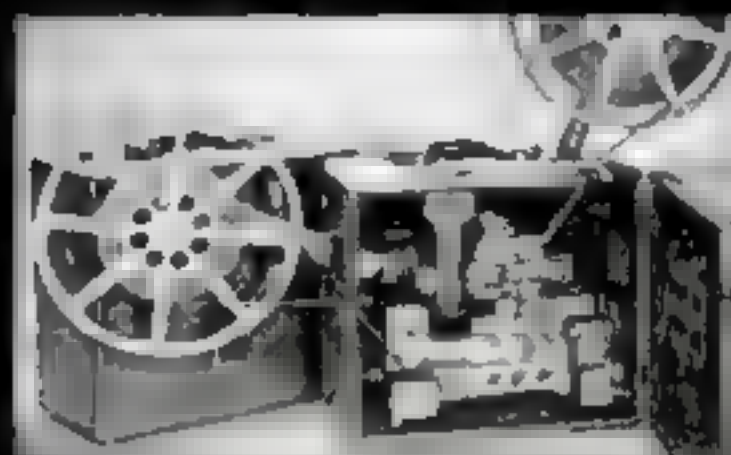
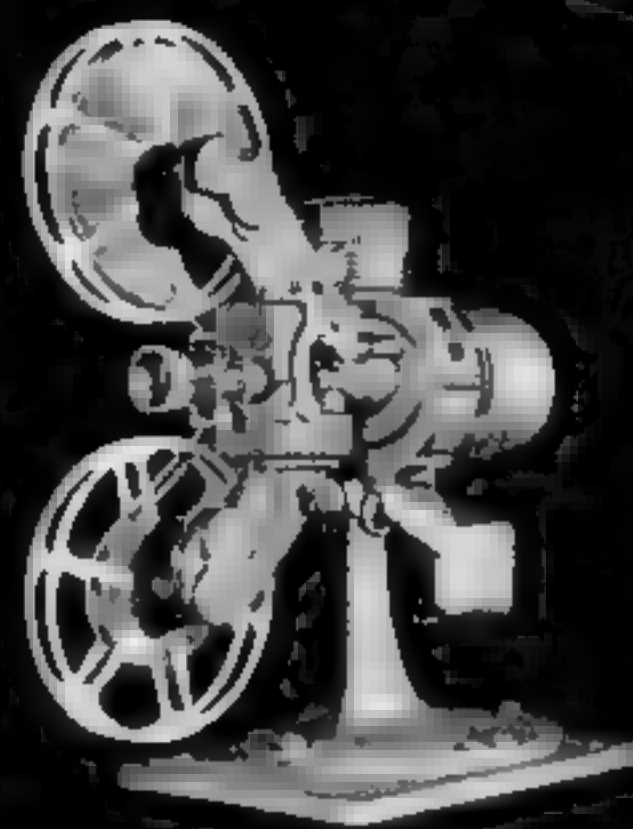
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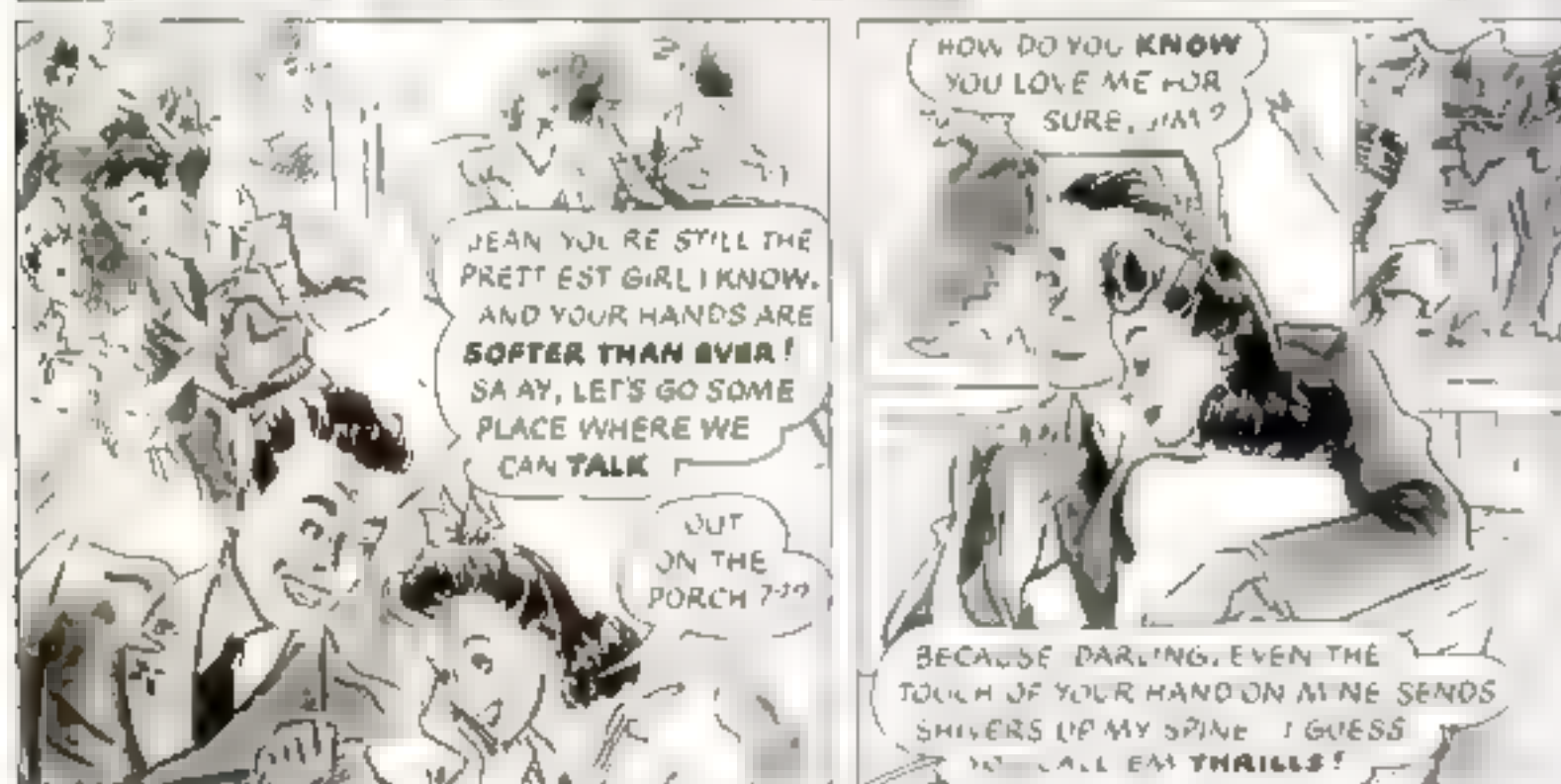
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and wherever skin needs softening!



Colonial Air Transport Co.'s pilots get General Manager Trippe's praise for flight to Boston from New York in 1926. Company had first air-mail contract awarded by U. S.

TRIPPE (continued)

As a feat of transportation pioneering, Pan American Airways has been compared with the Northern Pacific Railway and the Cunard Line. Neither comparison does justice to Trippe who, unlike James J. Hill or Samuel Cunard, was working both on a worldwide scale and in a new element. Trippe's decision to fly outside the U. S. was not based entirely on a grandiose dream. In order to make both ends meet on its subsidy of \$3 a pound, Colonial Transport had been so hard pressed that all its passenger agents had been instructed by Trippe to send each other daily air-mail registered letters, which had to be carried in special pouches weighing one pound each. The trouble seemed to be that, with 1924 equipment, Colonial's ability to save time between New York and Boston was hardly worth the public's money.

First step was to Havana

Under these conditions, Trippe's interest in pioneering was naturally stimulated by the thought that on extraterritorial routes an airline would be competing against slow boats instead of fast express trains. Mail to Cuba was slim but prospects for passenger traffic in prohibition days were good. Trippe and a group of his friends put in a bid for the mail contract, which was accepted, and got to work. Complication in the last stage of the program developed because the post-office contract provided that the service had to start within 60 days and Trippe's only available plane developed engine trouble on the 59th. An obliging friend flew the mail to Havana as a company agent but Trippe took the lesson to heart and has had a perfect record for meeting operating contracts ever since.

Having once established his route to Cuba it was natural that Trippe should expand throughout the Caribbean, where steamship service was leisurely at best and where a maximum air-mail rate, much more generous than the one on the mainland, of \$2 a mile, was presently established. Pan American expanded steadily and its next serious obstacle to world dominion did not occur until Trippe, who had been characteristically keeping this idea to himself, announced to a company meeting in 1928 that he proposed to fly the Caribbean. Landing rights, Trippe explained, had already been secured. The company meeting took place at Havana and Trippe's suggestion, which had not been anticipated by anyone else present, was made at 2 p. m. Objections were unanimous but Trippe, dealing with his adversaries one by one, had by 10 o'clock that evening reduced the list to two: his Miami traffic manager, who foresaw no demand for the service, and his chief engineer, André Priester, who said that the available planes could only carry a payload of five people. With fine illogicality, Trippe then suggested that, since five passengers were all that could be carried anyway, the lack of demand for the service was really a virtue rather than a defect. A methodical Dutchman

CONTINUED ON PAGE 120



*"I love the children
I never had . . .
Jane best of all!"*

"MUSIC IS LIFE TO ME . . . the life I might have had.
"It brings me many things. Tonight . . . those three children.
"They're my dears . . . all of them. But Jane, especially.
She's the weakest. She needs me most . . ."

IF MUSIC is a thing of deep meaning to you, isn't it wise
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AT
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ROOT BEER
WITH REAL ROOT JUICES
CHARLES E. HIRSH COMPANY

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NO CAFFEIN

ONLY NATURAL FLAVORS



Symbolic silver globes were awarded Trippe and Cornelius V. Whitney by Publisher Roy Howard and Texas' Amon Carter in 1937, soon after first Clippers crossed Pacific.

whose operational skill is one of Pan American's best intangible assets, Priester pulled from his pocket a watch fob in the shape of a pistol and put it to his temple. "What this company needs," he said, "is blimps." Enfeebled by hunger and fatigue, his colleagues let it go at that. The meeting was adjourned for dinner and the South American service started two months later.

Pan American's system was simple

More spectacular than Pan American's activities in South America, its spanning of both oceans was, operations-wise, less difficult. With adequate planes and pilots trained in Pan American's Caribbean schools, safety, profits and schedules can be readily equated from past performance charts. The more difficult and special question

HAVE UNEXPECTED
GUESTS DROPPED IN?
MY GOODNESS! DON'T
GET FLUSTERED —
CANNED FOOD TASTES
EXTRA GOOD, YOU
KNOW, WITH CREAMY
FRENCH'S MUSTARD!



• **SOUP**

Add a teaspoonful to a tin of tomato or pea soup.

• **HOT DOGS**

Serve 'em sizzling
—with plenty of
French's.


- SALMON

Mix a teaspoonful with each ounce of canned salmon.



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ANY MOUNTAINS YOU WANT MOVED?



If it's a penny postcard you want to send to a friend in the next town, the railroad carries it.

If it's a mountain you want moved, the railroad moves it.

And for the past year, the railroads have had mountain piled on mountain and still have kept them all moving.

First, the defense program doubled and redoubled far beyond the government's own estimates.

Consumer buying, rising to a ten-year peak, meant a marked increase in traffic.

The demand for ships brought a vast

shift of tonnage from water to rail.

The strike dislocated the movement of the vital coal traffic; thousands of coal cars stood idle for weeks and then had to do double duty to catch up.

All these the railroads are moving—without congestion or tie-ups.

Then, on top of it all, came a bumper crop of grain—and all of this for which storage can be found, the railroads are moving.

And the railroads are preparing to move still greater mountains. In the past two years they have put in service nearly

200,000 new and rebuilt cars. The schedule calls for 120,000 more in 1942—150,000 more in 1943, if the materials it takes to build them can be obtained.

Railroad transportation is one problem this country hasn't needed to worry about in the present emergency. The railroads have been able to handle the job so well for two reasons—one is that they entered the emergency period at the highest state of efficiency in railroad history. The other is that they have had the cooperation of government departments and shippers in making the most effective use of all available equipment.

BIG TRAVEL BARGAIN—\$90 coach fare, \$135 Pullman (\$45 extra for one or two passengers in a lower berth) for Grand Circle Tours of U. S. Ask your local ticket agent.



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Scotch Whisky
at its best!*



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TRIPPE (continued)

of diplomacy was less complex in ocean flying since fewer countries were involved. Trippe's chief headaches in the Far East for instance were the questions of what to do about paying squeeze, or bribes, to Oriental officials and how to persuade the English to let him land at Hong Kong. Concluding that if squeeze once began it would never end, Trippe refused to pay it. The Hong Kong problem was knottier. While negotiating with the Portuguese for landing rights at Lisbon, he fortunately remembered that Portugal also controlled the Port of Macao, a few miles south of Hong Kong. He then gratified the Portuguese by making Macao part of the Lisbon deal. Unwilling to be by-passed in this fashion, the British thereupon not only let his planes land at Hong Kong but helped him make a deal with New Zealand whereby, in July 1940, Pan American's ships began scheduled flights to Auckland.

Regarded as fools when they are really functioning quite sanely, successful visionaries like Trippe often gain belated recognition only after, owing to lack of further incentive, they have become even more foolish than they were originally considered. Trippe has as yet shown few signs of pre-senile decay. He still thrives on an 80-hour work week, avoids hobbies, night clubs and political jobs, plays golf in the 70's, drives his own car and lives in keeping with his modest statutory salary of \$17,500 a year. In 1928, Trippe married Elizabeth Stertinius, sister of the spectacular young former chairman of U. S. Steel, whose Washington apartment he sometimes visits. The Trippes and their four children keep an apartment in New York and houses at Easthampton, L. I. and at Greenwich. Trippe commutes in a Fairchild monoplane which he pilots himself. Scrupulously fussy about Pan American equipment, he is less careful about his own plane. Not until Sherman Fairchild, who is a Pan American stockholder, gave him a lecture on the subject would he consent to have it sent to the shop for overhauling last September.

Economics of this kind are habitual with Trippe. Scornful of luxuries, he smokes three-for-a-quarter cigars. Recently he gave a secretary in his Washington office a quarter to buy some. When the girl returned saying that he owed her a nickel because a local tax raised the price to 10¢ apiece, Trippe instructed her instead to take back one cigar and give him the extra nickel. Trippe's Washington office is run by a Mrs. Annie Archibald, widow of a U. S. marine pilot killed in service whom Trippe had known in Nicaragua. Trippe's journey to South America in 1928 was one of the few he has made and he has never felt obliged to learn Spanish or Portuguese. His most recent visit to the scene of his earliest triumphs occurred in 1936. When the first transpacific Clipper crossed to Manila, Trippe was a passenger and he proceeded to Europe by Imperial Airways, crossing to Brazil by Zeppelin. This made Trippe the third person to circumnavigate the globe by commercial air routes but Pan American's president regards this as a dubious honor and dislikes travel generally, considering it a waste of time.

Trippe is a board-room orator

As an only son, Trippe grew up in some awe of the sound of his own voice and is still given to expressing himself in such phrases as "Geel!" and "Oh, Gosh!", accompanied by timid head-waggings. At Yale, Trippe's shy manner, which sometimes seems almost furtive, was possibly a handicap but in his present capacity it is definitely less onerous. Businessmen, properly suspicious of word mongers, are inclined to put their faith in board-room orators of the sincere but inarticulate school. Giving his proclivities in this direction full rein, Trippe has become a kind of malaproprian Machiavelli, a Churchill of the fumbled phrase. Listening to him as he gropes for words or plaintively suggests that an embarrassing question be saved for later, creates heart-rending sympathy. Some of Trippe's admirers in fact have suggested that his tongue-tied eloquence at conferences, board rooms and Senate committee hearings is his principal business asset. There is no doubt in any case that it has helped him to retain control of his company. This, in view of the stresses and strains normal in any rapidly growing business, is an achievement almost as remarkable as the company's achievement in circling the world.

Trippe's habit of keeping his dreams to himself until they need nothing except an O. K. from a directors' meeting to come true began to disturb Pan American's theretofore co-operative board as early as 1928, when a minor rebellion was organized by the late Richard Hoyt. His reign has been seriously threatened on only one occasion since. This was when Cornelius Vanderbilt Whitney became persuaded that Pan American's president needed administrative

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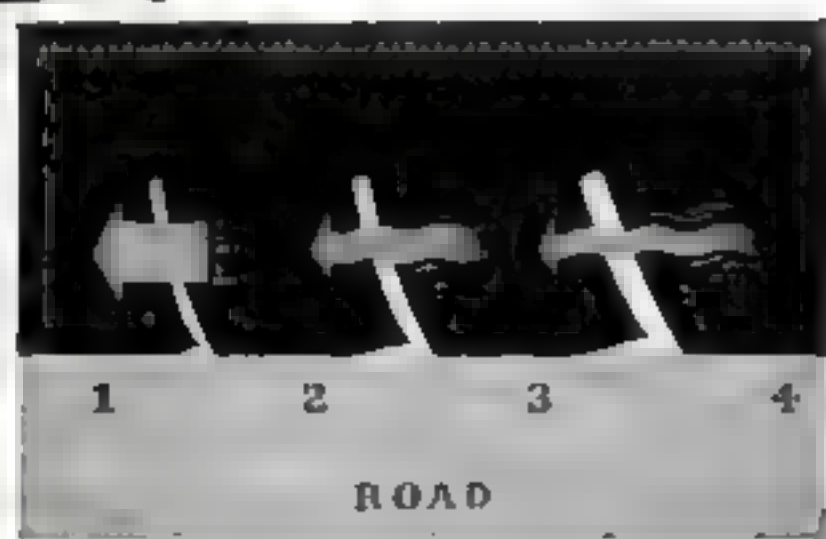
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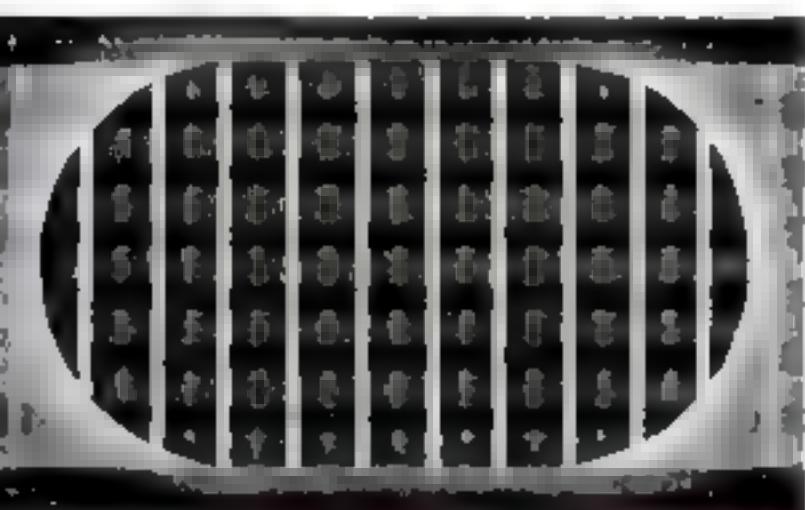
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TRIPPE (continued)

aid and, as the corporation's biggest shareholder, brusquely offered to supply it. It soon turned out that Whitney, a polished clubman type, lacked the necessary pioneer touch in executive behavior. Trippe, who had spent the intervening period mending his fences in Washington, resumed full charge last year.

As might be expected, Trippe and Whitney are still on friendly terms. So are Trippe and Robert Lehman, who is not only a member of Pan American's board of directors but also a partner of the banking firm of Lehman Brothers. Other Lehman partners—among them Whitney's polo associate, Thomas Hitchcock—are backers of Pan American's forthcoming rival for future transatlantic business, American Export Airlines.

Trippe's fences in Washington are extensive. In keeping with his habit of paying close attention to the future, he has not allowed his preoccupation with management and defense to distract too much of his attention from the problems, equally pressing from the visionary point of view, of who is to control the world's airlines after the existing confusion. As befits the great grandson of a navy captain, he is explicitly mindful of the position in world trade which the U. S. occupied in the days of clipper sailing ships. He feels that an analogous position can be attained by U. S. transoceanic airlines—provided that Pan American's bargaining status in foreign lands, where it competes with government monopolies, is not compromised by the necessity for competing also with a domestic rival. Trippe points out to Congressional committees that operations like the ousting of SCADTA from Colombia and the adjustment of the Brazilian citizen pilot regulations could hardly have been achieved except by a company which had sole U. S. rights to the territory.

Organized four years ago to fly the Atlantic against Pan American, American Export contends that far from competing on the same terrain extraterritorial U. S. airlines can be assigned to separate regions and that the resulting competition will be healthy for all concerned, supplying a yardstick for subsidies, wage scales and passenger traffic rates. The argument, now about two years old, is still academic since American Export will not get delivery of its first transoceanic planes until next January. This tends to increase rather than diminish the energy with which this fight is being conducted. Plane manufacturers, who want a wider market and feel that Trippe has played them off against each other; the Army and Navy who feel that Pan American is trespassing on their terrain; and a strong faction of the State Department side with Export. Export also has the approval of the Post Office Department and a CAB certificate which means, in effect, that Trippe's friend Franklin Roosevelt approves of its efforts. Trippe, using his "Oh, Gosh!" technique, has so far held his own in the committee hearings.

Business associates sometimes underrate Trippe, even while falling under his spell, but the experts whom he encounters in Washington value him at his full worth. After hearing Trippe argue his case against American Export Airlines, Senator McKellar, a seasoned observer, told his colleagues that Trippe was "the most brilliant witness I have ever seen." Later on, the gentleman from Tennessee, having cast his vote for American Export, revised this opinion upward. "Trippe," he said, "is the smartest man in the United States".



His "Y in Life" for outstanding achievement was awarded to Trippe by Nicholas Roberts at chronic Yale Mountaintop barn party in 1940. Trippe acquires many souvenirs



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THIS WEEK ONLY!

36 select hardy delphinium plants, plus a special bonus of 44 other lovely perennials for only

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* This week we have our delphinium season for 1941. If you wish to see the many new delphinium plants you have been hearing about on the radio, shipped ready to plant, visit our yard this fall, send your order today.

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If you send your order this week, we'll also include in your package without extra charge 44 of the following lovely perennial plants

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Send Your Order Today!

We will ship all 80 plants C.O.D. \$1.50. No other charges. This is a limited offer only, and cannot be repeated again this year. It's first come, first served, so mail the coupon at once to assure your order being filled. Send no money! Just pay the postman \$1.50 when your plants are delivered.

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Please send me at once one of your annual delphinium offers of 36 plants together with the special bonus of 44 other perennials. I'll pay the postman \$1.50 on receipt of my plants.

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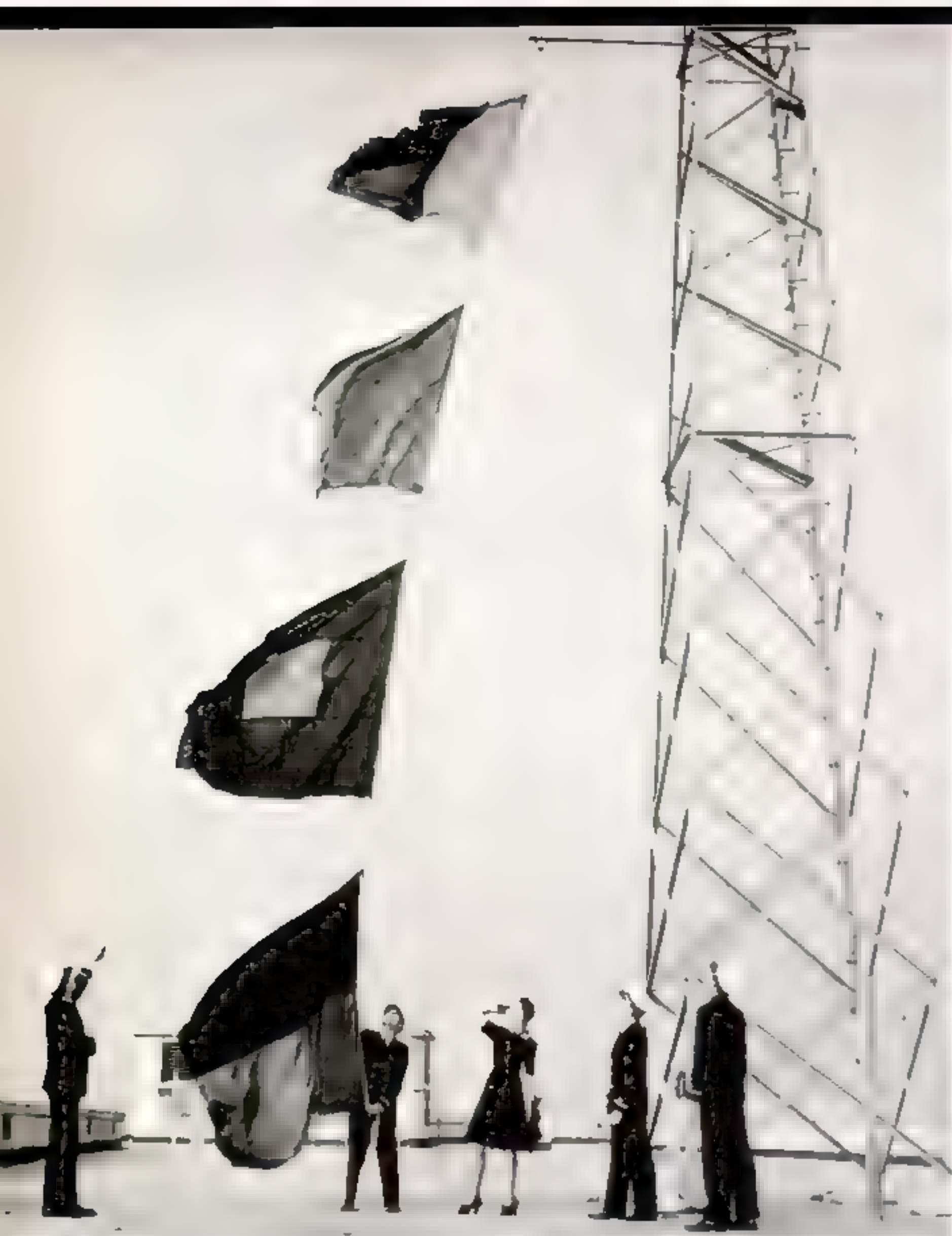
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"HOPE" is spelled out by the flags at the top of the tower at Fort Schuyler where Hope Daniel watches them from the shore. Below, the sights of Long Island Sound are pointed out to Hope. The all-star cast that Fort Schuyler presented last year was returned by the Navy from the Army.



Apprehensively Hope Daniel waits at Conover agency for her Navy escort to appear.



Smilingly she greets Eugene Schwab—better than expected, perhaps.

Life Goes to a Navy Party

For patriotism's sake a New York model spends a hard day with the U.S. Navy at Fort Schuyler

Wearing bathing suits, models last year publicized Miami Beach. What a gain in harnesses from a huge Christmas tree! In New York recently, for a LIPF's story, a first aid kit models squeezed saw-berry and put on their faces to make the wounds.

These things, of course, are part of the general lives of professional models. But now still another assignment has been given them. Every day they receive invitations from Army and Navy camps. For patriotism's sake, they are urged to camp. They are given Army streets, put in Army fashion shows, pose for defense lectures, appear on radio programs, inspect military equipment when they cannot understand it. For all this, they are offered no money.

Because the girls are generally patriotic, they go as many of these invitations as possible. They do the hard work, says the commanding officers. A character now and a honor, they must be clearing. To the patriotic girls, they stand in a non-attitude, young and fresh. They must be. They were here for a long time. And always, the better they are, they may be. They must look beautiful.

The pictures here show the visit of a Conover. Hope Daniel, to the Navy's Fort Schuyler on the Bronx coast. Although her feet hurt her and she was tired to stand, she said, "I had a better time than she had dared to expect." The Navy, she said, treated her fine, but she was tired and tired when she had to go home.

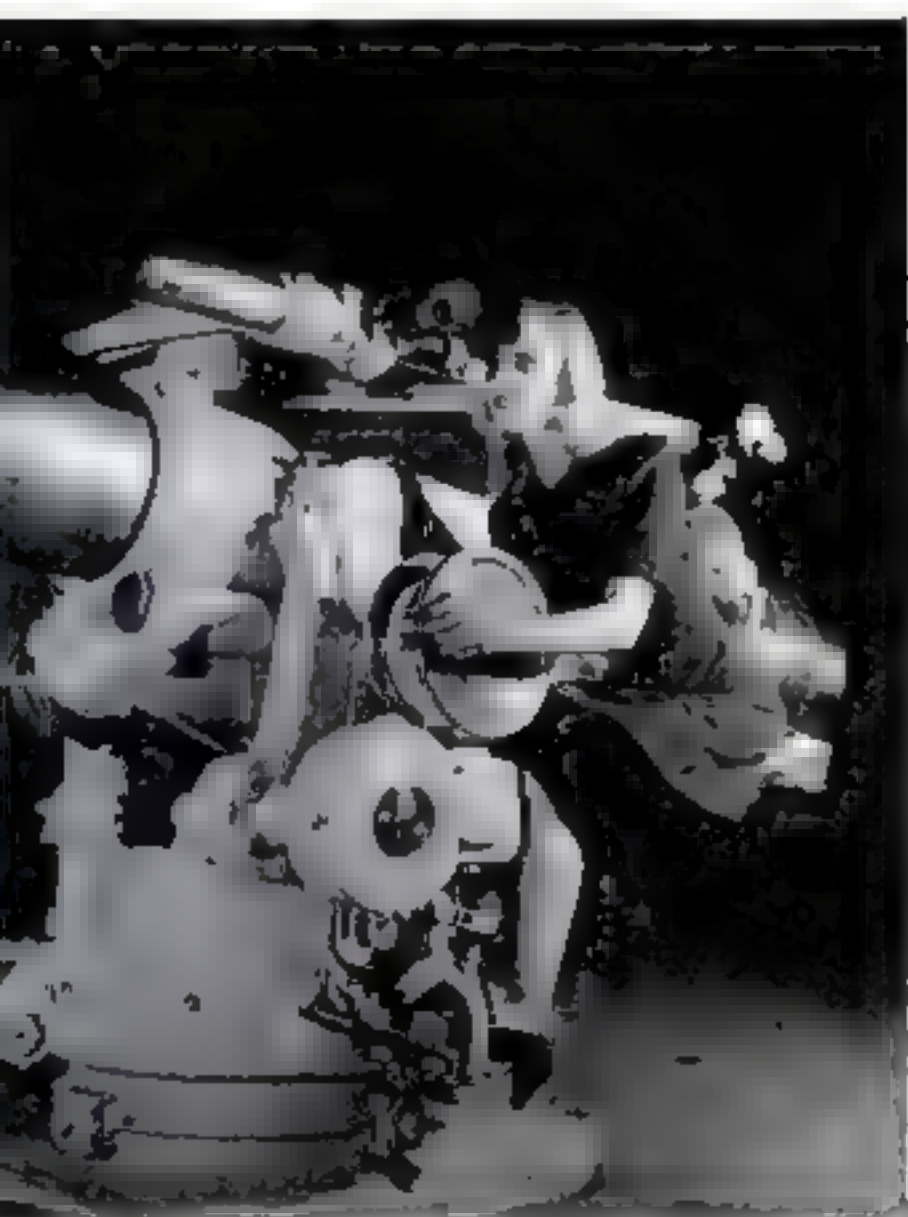


Arriving at the Fort, Hope is saluted by three other escorts. She finds this a very amusing. Invariably at Army and Navy parties, there are too many boys for the girls.



This is the kind of picture, taken either by professional photographers or by sailors or soldiers themselves, which models must always pose for when they visit Army and Navy

camps. As she balances precariously on a cannon ball, Hope Daniel is frankly nervous. She is afraid of runs in her stockings or, even worse, of turning her ankle or breaking an arm.



through the sights of a 4-in. gun, Hope peers warily. Officers explain how gun works but she does not understand.



How to use a sextant is endlessly explained by Ensign Hawes. By now, Hope's feet are so tired that she kicks off her shoes.



Up the slender airy ladder leading to the signal mast goes Hope. Because she is frightened she is acting somewhat petulant.

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WHAT'S going on in the motor of your car? Why are some cars sluggish, hard to start, slow on pick-up? "Plug-Chek," a new service for car owners, helps reveal the "inside story"!

The new scientific Auto-Lite "Plug-Chek" Indicator helps show you whether your spark plugs are operating efficiently—or whether they are wasting gas, robbing your car of power. Here's an easy way to make sure your spark plugs are getting peak economy from the gasoline you use in your car.

Stop for an Auto-Lite "Plug-Chek" today—at any Auto-Lite Spark Plug dealer's. Check your spark plugs against the Auto-Lite "Plug-Chek" Indicator. Note the "symptoms"

shown by the firing tips of your plugs. The color and condition are revealing indications of what's happening inside the motor.

An Auto-Lite "Plug-Chek" will also show you, clearly, whether any of your spark plugs need changing. If they do, replace with ignition-engineered Auto-Lites, and see the amazing difference they make!

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AUTO-LITE SPARK PLUGS



Life Goes to a Party (continued)

In the evening, after a short rest, Hope is her old, original self. Here, wearing a red crepe dress and a white bunny fur coat, she applauds the traveling show which entertained the Navy officers. Girl to the right is Doris Tate, another Conover girl.



Before the formal dance, Ensign Schwab introduces Hope to the commanding officer of Fort Schuyler, Captain Arthur Stott, and to Mrs. Stott. Below: the dance in the mess hall. Ten Conover girls were the prettiest, most sought-after girls at the party.





Between dances, Commander G. F. Mentz asks Hope to dance. Before arriving, she has been told to be especially nice to superior officers like commanders, captains. Commander Mentz, however, is not as stuffy as she thought a commander would be.



While the commander beams, Hope wilts. Although she likes him and thinks he is a good dancer, she is very tired. Below: Navy officers ask Conover girls outside during dance. There the girls are wary of moonlight, soft music, fresh air, Navy officers.



For Distinguished Service



HONOURS OF The 10th Royal Hussars (Prince of Wales's Own)

From its success at Warburg, in 1760, to its action in France and Flanders in 1914-18, the Standard of the 10th Royal Hussars has been decorated with Twenty-two Battle Honours for Distinguished Service

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Grand Prize, the Louisiana Purchase Exposition St. Louis, 1904 . . . one of more than 60 medals honoring Dewar's White Label for Excellence in Scotch Whisky.



If reconnaissance reports you. Scotch reserves depleted, enlist DEWAR'S White Label and soda . . . highball of the highlands. Seasoned veteran, it has won more than 60 medals of honour for distinguished service. That's why, to gentlemen the world over, the order of the day . . . and night . . . is DEWAR'S White Label. Company . . . at ease!

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**BEST BET IN
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MELLOWER
 Slow and careful —
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Larry Adler puts his soul into his playing, assumes a rapt and rapturous look. He often breaks harmonica during performance, switches to spare carried in back pocket.



With the Philadelphia symphony, Adler dressed in very formal white tie and tails even though the orchestra members wore summer shirt sleeves for outdoor performances.

LARRY ADLER MAKES MOUTH ORGAN A CLASSICAL MUSICAL INSTRUMENT

Larry Adler is the leading living virtuoso of the harmonica, the only man who plays mouth-organ solos with first class U. S. symphony orchestras. Last summer he was soloist with the Cleveland Symphony, the Philadelphia summer symphony and the New York Philharmonic Symphony, playing an arrangement of the Vivaldi-Nachaz Violin Concerto in A Minor, plus shorter luts by Bach, Rachmaninoff, Granados. With the Rochester Philharmonic this November he will give the world premiere of a concerto for harmonica and orchestra, especially composed for him by Jean Berger. For any musician to solo with these great musical bodies is a high honor. For a harmonica player to solo with them is a major musical feat.

Mr. Adler, who is 27 and the son of a Baltimore plumber, started out for success when he was 14 by winning a harmonica contest with a rendition of Beethoven's *Minuet in G*. He went on to an Eddie Cantor show, has since been featured in musical comedies, movies, radio shows, earns \$1,000 a week. He can make his mouth organ sound like any number of instruments (see next page). When the *New York Times* reviewed his Philharmonic appearance last August it praised the refinement of Adler's style, soberly concluded that his harmonica playing was "sweet and mellow."



Adler's harmonica has two row sections. Upper section plays natural scale. Pressing lever (as above) Adler closes upper sections, opens lower which plays sharps and flats.

CONTINUED ON NEXT PAGE

SAVE GAS

-and conquer CARBON too!

"I see they are talking about saving gasoline again," said a motorist the other day. "But if everybody did what I'm doing, we wouldn't have to cut out so much driving and still we could save gas, sometimes as much as 10 per cent."

"What's your secret?" he was asked. This was his answer:

**IN 1994
CERTIFIED ROAD TESTS
MACMILLAN
RING-FREE
MOTOR OIL**

**Increased gasoline mileage an
average of 1.3 per gallon!**

Competent automotive engineers will verify the fact that at 40 miles per hour on a level road 50% of the horsepower developed by the engine is used in overcoming internal friction in your motor.

Therefore, any oil that gives you a greater reduction of friction in your motor is bound to give you increased gasoline mileage by delivering more power to your drive-shaft. There is nowhere else for this released power to go!

In the tests mentioned, increases as high as 10 per cent were not uncommon. This means, in effect, that if you drive your car 5,000 miles per year you may get with RING-FREE, as high as

**500 MILES
OF FREE GASOLINE**

More than that, the increased gasoline mileage and the reduction of motor temperatures in your car prove that with RING-FREE there is less wear in your motor, increased acceleration and greater pep—as well as a substantial saving in repairs and maintenance.

**RING-FREE
REMOVES
CARBON**

The continued use of RING-FREE offers ECONOMIES in both Oil

and Gasoline Consumption. In the operation of an automobile it is always true that partly consumed gasoline and oils are bound to form carbon. But you are not bound to sit idly by and let it get thicker and thicker.

You turn the tide against carbon when you put in RING-FREE. Its secret refining process—a patented process—retains in the oil a solvent which keeps ahead of the formation of carbon. You conquer carbon!

Almost at once you will find the benefit of RING-FREE—in added acceleration, in greater smoothness of driving, in increased zip and pep. And as you continue to use RING-FREE you will save in added mileage, in wear and tear and in your repair bills. Start using it today!



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Try it at OUR risk! Macmillan RING-FREE Motor Oil is guaranteed to remove carbon, cleanse your motor, save gasoline, reduce wear and repairs. It makes your motor run smoother, reduces friction by thorough lubrication and adds pep and zip. Try a fill and if you are not satisfied that RING-FREE is doing these things, your money will be refunded by your dealer immediately.

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Reach with pride
I.W. HARPER
The Gold Medal Whiskey

Adler's harmonica (continued)



An organ effect is obtained by Adler by covering the instrument closely with his hands to get resonance, blowing into several holes at once to get full, sonorous effect.



Trumpet effect is obtained by leaving instrument open. Blowing freely into one hole. Harmonica can't be played very loudly. If Adler blows too hard, reed breaks.



Trombone effect is obtained by "growling"—blowing into instrument on low notes while making guttural sound. By snorting growls, Adler can sound like French Horn.



Conducting Ravel's "Bolero" with orchestra, Adler blows into mouth organ, urges players on at same time. He once got so excited on *Bolero* that he broke a tooth.



DEWAR CHALLENGE TROPHY. Presented by Scotsman Sir Thomas Dewar to encourage soccer football in the United States, the handsome trophy shown at the right has since 1913 been emblematic of the national open championship in this fast, exciting sport. The highest goal of every amateur and professional soccer club in the country is to get its name engraved on the Dewar Trophy—because that's proof that the team is tops and every player on it is better than good.



EMBLEMS OF EXCELLENCE

ETHYL EMBLEM. There is an award for excellence in gasoline too. It is the Ethyl name. Gasoline in a pump which bears the Ethyl trade mark has to be better than good. It must be "tops" in anti-knock (octane number) and all-round quality "Ethyl" means a cooler-running engine in summer; a quicker-starting engine in cold weather; extra power throughout the year. When you stop to buy gasoline, "Ethyl" tells you which pump contains the best.



THE BETTER THE GAS, THE BETTER YOUR CAR

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Be easy on your car. Fast starts, sudden stops and sustained high speeds cost you valuable mileage.



Correct minor troubles before they get big. Have your car inspected while it is being lubricated (every 1,000 miles).

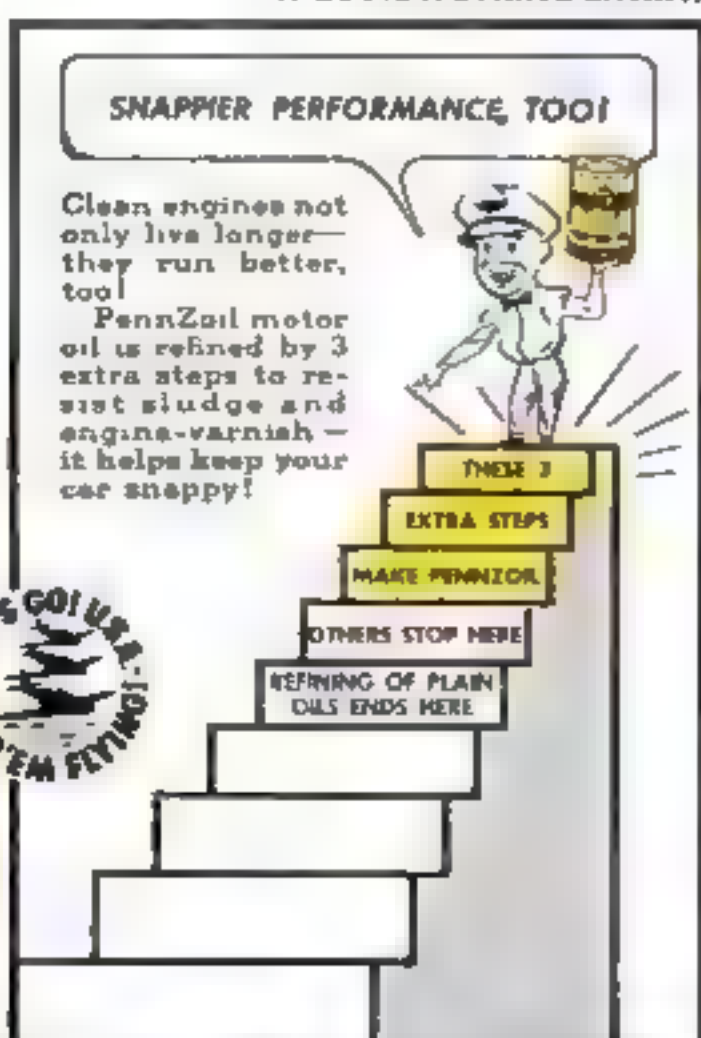


Member Pa.
Grade Grade 100
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Specify oil that resists sludge and varnish, so your engine will stay clean and smooth. You get it at the yellow PennZoil oval sign when you...

*Sound your "Z" for
this top PENNZOIL!*
IT COSTS NOTHING EXTRA!



PICTURES TO THE EDITORS

SERVICE WITH A SCRATCH

Sirs:

The service at L. B. Still's gas station in Atlanta, Ga., is really up to scratch. The picture below proves it.

Itching for business, Mr. Still installed this back-scratcher, which exemplifies the business itch as nothing else could.

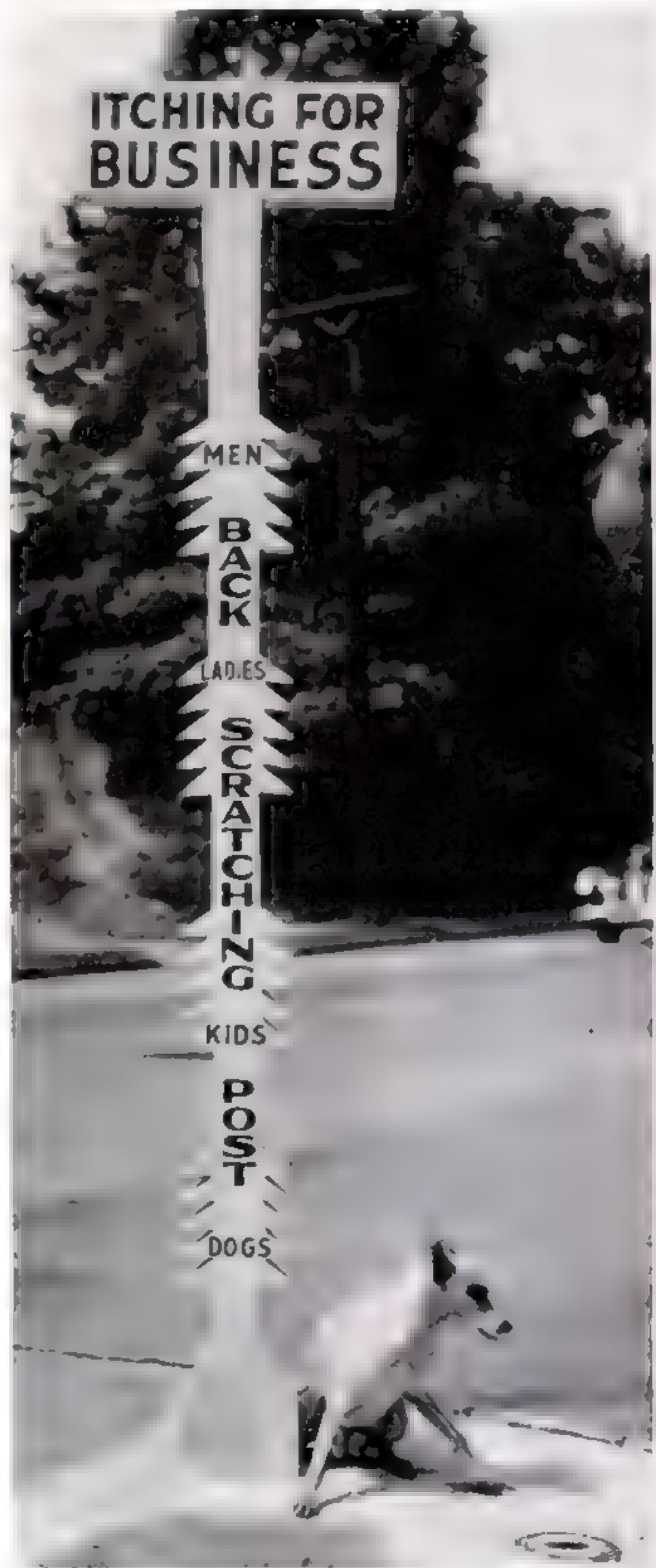
The back-scratcher, as the signs show, is for men, ladies, kids and dogs. Avail-

able for use at any time, Mr. Still doesn't even require that you scratch his back before you use his back-scratcher to scratch yours.

In this picture, it appears the dog is too lazy to scratch his own back. Offering the scratcher, though, is as far as Mr. Still will go.

K. M. BECKMAN

Des Moines, Iowa



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Smooth, Gentle Relief
Usually in One Hour!

When acute constipation leaves you on edge, try the famous PLUTO WATER treatment. Although PLUTO works swiftly, it works by gentle osmosis, creating fluid bulk in the colon, flushing digestive waste, usually within an hour. Pluto is a concentrated, fortified and scientifically stabilized saline mineral water with all minerals and salts in complete solution. It passes through the stomach without disturbing its function, is not absorbed, and acts in the colon where physicians want a laxative to act. Try Pluto now—10c and large economy bottles. You must get refreshing, comforting relief from acute constipation in one hour or your money back. French Lick Springs Hotel Co., French Lick, Ind.

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due to dry eczema, chafing,
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RESINOL



PICTURES TO THE EDITORS

(continued)

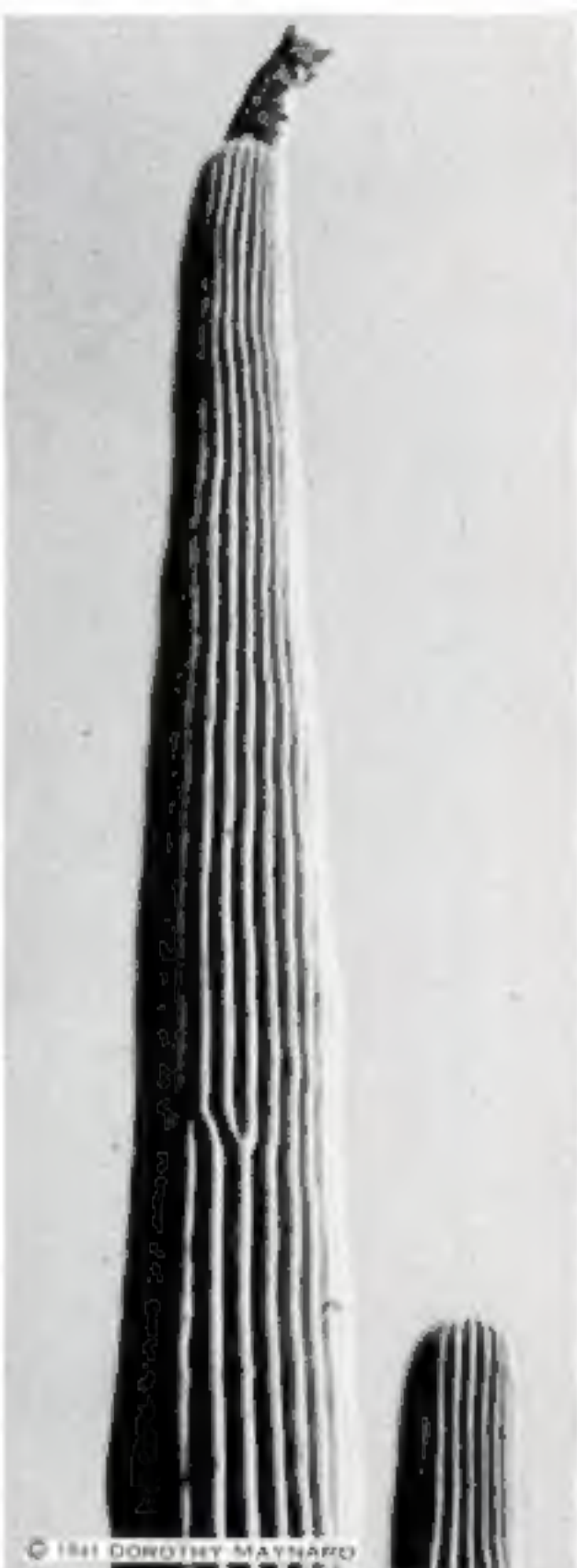
CAT & CACTUS

Sirs:

During a hunt staged for Tucson dude ranch guests, a wildcat climbed a 40-ft. giant salsuaro bristling with 2-in. spikes to escape pursuing hounds (top photo). Only way to get him down without injuring him was to shoot off the cactus' top. Lower photo shows him earthward bound clinging to the severed top. The hounds were so surprised they failed to catch him then or in an ensuing two-hour hunt.

DOROTHY MAYNARD

Jeffers, Mont.



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*I know this
BATTERY GIVES
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LONGER
LIFE*

Here's Why—



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CLIPPERS USE AUTO-LITE
BATTERIES IN
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THAT HAS ESTABLISHED THE
WORLD'S GREATEST
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1 OUT OF EVERY 3 CAR
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TO get power, dependability, longer life in your next automobile battery follow the example set by the world's top ranking engineers. Their recommendations have made Auto-Lite Batteries standard equipment for 1 out of every 3 car manufacturers. What's more, these batteries are used by giant flying clippers spanning the Atlantic and Pacific Oceans. Now every car owner can enjoy the advantages of a top quality battery—for today Auto-Lite Batteries are priced with the lowest. See your nearest Auto-Lite Battery Dealer today!

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ONLY AUTO-LITE BATTERIES GIVE YOU ALL THESE FEATURES

- Battery engineered for your car.
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THE LOWEST!**

AUTO-LITE BATTERIES

ENGINEERED AS A BALANCED
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Perspiration is Acid

Actually *ROTS* Stockings!

But **NEW IVORY SNOW** care guards against this danger . . . even chiffon stockings last up to $\frac{1}{5}$ longer!

• Perspiration has now been revealed as a common and neglected cause of serious damage to stockings. It is normally distinctly *acid*. It rots stockings!

Runs, weakened fibres, that "old" look—all these are vastly increased by acid perspiration.

To help your stockings give the longer wear that is today so important—turn to this daily Ivory Snow care. Ivory Snow is the new improvement on "fine fabrics" soaps. Ivory-pure. Made in "snowdrop" form, to give rich suds in 3 seconds, even in cool water.

Carelessness about washing stockings costs money. Tests show that daily Ivory Snow care brings up to $\frac{1}{5}$ longer wear—it's just like getting a new pair of stockings free every 2 months!

Undies, too, look and last better under this gentle, safe care.



"Try my easy daily care
You'll get longer
stocking wear!"
—Miss Ivory Snow

THE DANGER OF ACID PERSPIRATION:
Every day, in all seasons, the normal human body gives off at least a pint of acid perspiration—much of it unseen, unfelt. This perspiration quickly starts to weaken fibres of stockings and undies.

ONLY IVORY SNOW COMBINES BOTH THESE ADVANTAGES

- 1 Pure soap in quick-dissolving tiny "snow-drop" form . . .
- 2 Bursts into pure, rich suds in 3 seconds . . . even in cool water.

Ivory Snow acts quickly, surely, safely against dangerous acid perspiration . . . to help stockings last far longer.

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THEN CHANGE FROM ANY ONE OF THE 5 LEADING PACKAGED SOAPS THAT MAY BE ROUGHENING YOUR HANDS—WASH DISHES REGULARLY WITH **IVORY SNOW**. CUTS GREASE AS FAST AS THE STRONGEST LAUNDRY SOAP!



99 44/100% PURE

RICH, SAFE SUDS IN 3 SECONDS — EVEN IN COOL WATER

PICTURES TO THE EDITORS

(continued)

"ME AND MY SHADOW"

Sirs:

Wherever my white fox terrier goes he is shadowed by a little flop-eared black mongrel (see picture below). Due to the markings on his back, I am somewhat puzzled whether this snapshot I took

of him should be captioned dog or dogs.

The name of the fox terrier, of course, is Spotty. Particularly amusing, I think, is the cocked-head attitude of Spotty's spot. It makes it look as if Spotty's "shadow" is somewhat puzzled, too.

MRS. A. LEONHARD
Stroudsburg, Pa.



FORMAL FOOTBALLERS

Sirs:

This Green Mountain Junior College backfield doesn't expect to make its touchdowns this year in tuxedos. The boys just mixed the dress attire and football gear to pose for a formal opening of their season, which began on October 4

with a 13-6 over the Norwich University freshman team.

The backfield is composed of (left to right) Robert Fisk, Providence, R. I.; Robert Crotty, Bellows Falls, Vt.; Art Spaulding, Windsor, Vt., and Putt LaMay, Whitehall, N. Y.

HOWARD S. CURTIS
Poultney, Vt.



Personals



by the
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GIRL"

(One of America's best
loved trade-marks)

MRS. S. E., of Audubon, N. J., writes that, as a child, she was fascinated by my picture on the Baker's Cocoa box, but often had the alarming thought that I might spill my cup. I haven't, though, dear Mrs. E.—not in all the years since 1780 that Baker's Cocoa has been so famous!

★

HERE'S a simple, new trick! Mix Baker's Cocoa and sugar together (just like cinnamon and sugar) and make "cocoa toast." Delicious!

Get BAKER'S COCOA in the pound-size can. You'll find it a real economy.

★

ABOUT 4,500,000 pieces of chocolate were ordered by the Quartermaster Department for the Army, according to a recent news item. Chocolate furnishes "marching energy" in a form the soldier likes.

Growing children use up lots of energy, too. Why not keep Jumbo Bars of BAKER'S MILK CHOCOLATE always on your pantry shelf?

BAKER'S MILK CHOCOLATE Jumbo Bars are the only eating chocolate with VITAMINS A, B₁ and D added!



BAKER'S

A Quality Product
for every chocolate use



When the Bridge Club meets at your house You can serve a Grand Surprise With this brand-new BAKER'S CHOCOLATE Smooth, rich Paragon of Pies!



VELVET CHOCOLATE PIE DE LUXE



Filling:

2 to 3 squares Baker's Un-
sweetened Chocolate
¼ cup sugar
¼ cup water
6 tablespoons flour
½ teaspoon salt
2 cups milk
1 egg, slightly beaten

Combine chocolate, ¼ cup sugar, and water in saucepan. Cook 5 minutes, stirring constantly. Combine flour, remaining sugar, and salt in top of double boiler. Add milk gradually, stirring well; then add chocolate syrup. Place over boiling water and cook until thickened, stirring constantly. Then continue cooking 10 minutes, stirring occasionally. Pour small amount of mixture over egg, stirring vigorously; return to double boiler and blend. Remove from boiling water, add butter and vanilla. Cool. Turn into Vanilla Wafer Crust. Chill 1 hour, or longer.

Mix chocolate and butter; cool until slightly thickened. Dip rounding edge of vanilla wafer into chocolate mixture. Let stand on waxed paper until set. Pile whipped cream lightly around edge of pie to form 1-inch border. Garnish with vanilla wafer quarters.

Vanilla Wafer Crust: Combine 1½ cups finely crushed vanilla wafers (4¼-ounce package) and ¼ cup sugar. Add ½ cup hot melted butter and mix thoroughly. Pack on bottom and sides of 9-inch pie plate and bake in slow oven (325°F.) 15 minutes. Cool.

(All measurements are level)

ANOTHER FAMOUS BAKER'S CHOCOLATE RECIPE

2 teaspoons butter
1½ teaspoons vanilla

Garnish:

½ square Baker's Unsweetened
Chocolate, melted
½ teaspoon melted butter
3 vanilla wafers, quartered
½ cup cream, whipped, sweetened,
and flavored with vanilla



NEW!
EASY, VANILLA WAFER
CRUMB CRUST!

NEW!
VELVET-SMOOTH,
CREAMY-RICH FILLING!

NEW!
SIMPLE GARNISH
WITH VANILLA WAFER
QUARTERS!

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Follow her recipe exactly, using BAKER'S CHOCOLATE, to get your full quota of compliments. For the richness of Baker's gives color . . . flavor . . . smoothness unsurpassed. Baker's, you see, is pure chocolate—just top-quality cocoa beans crushed smooth as satin, with all the rich, luscious cocoa butter left in and not one thing added. No wonder Baker's has been America's most famous cooking chocolate for more than 175 years!

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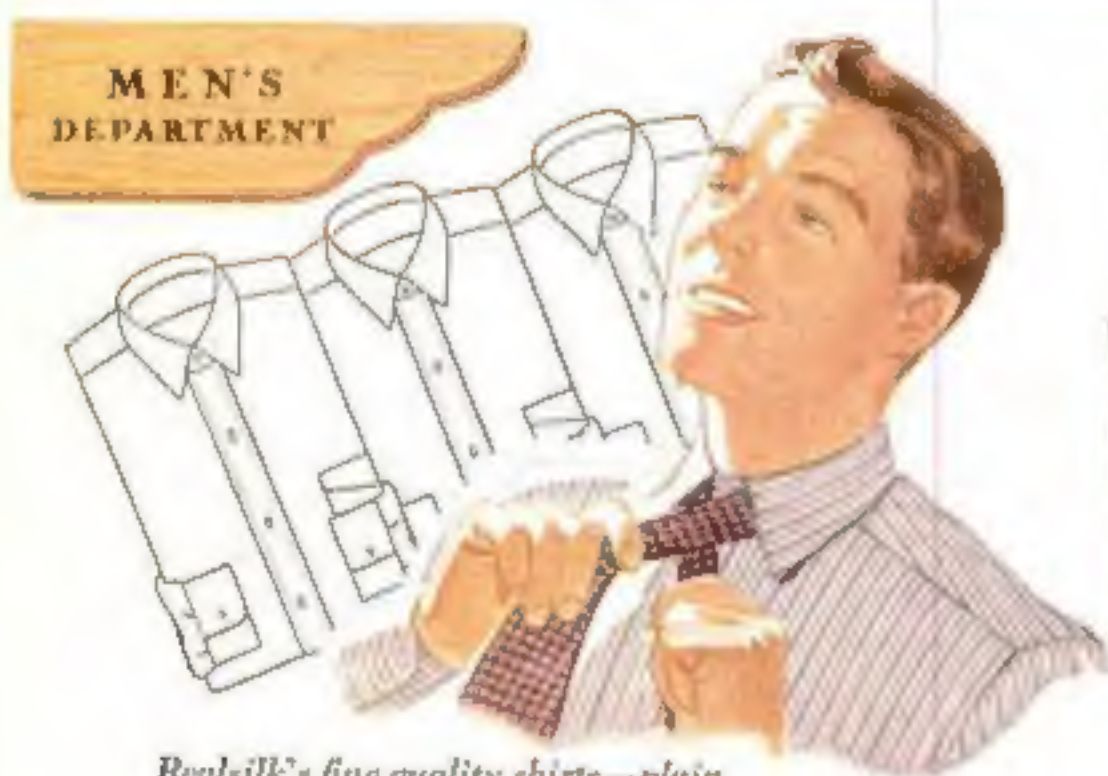
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